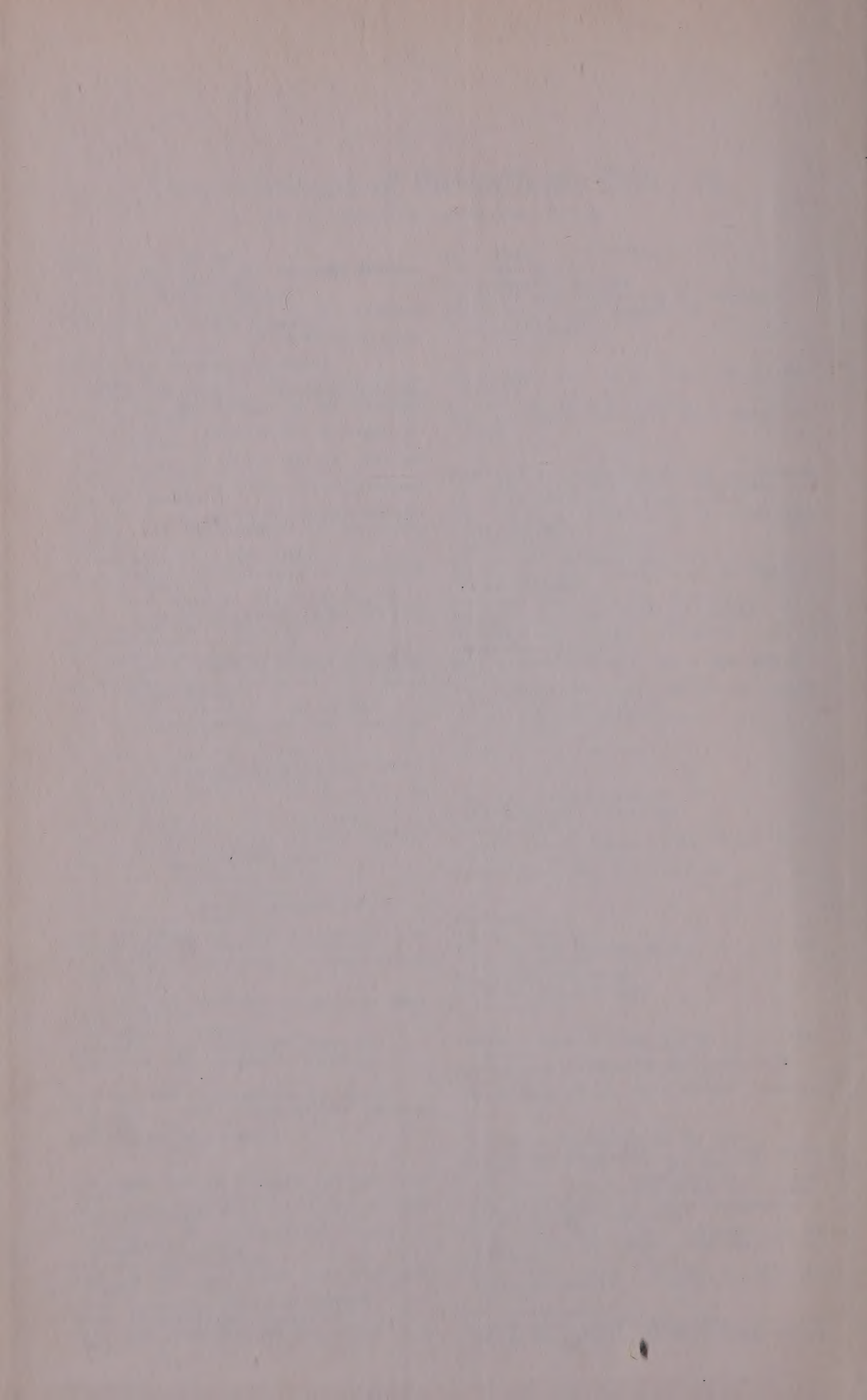


Applied Science &
Technology Index
1966







ABBREVIATIONS OF PERIODICALS INDEXED

Ind & Eng Chem—Industrial and Engineering Chemistry

Ind Electronics—Industrial Electronics

Ind Finishing—Industrial Finishing

Ind Med—Industrial Medicine and Surgery

Ind Phot—Industrial Photography

Ind Quality Control—Industrial Quality Control

Inland Ptr/Am Lithogr—Inland Printer/American Lithographer

Inst E E Proc—Proceedings of the Institution of Electrical Engineers

Inst Mech Eng Proc—Proceedings of the Institution of Mechanical Engineers

Inst Metals J—Journal of the Institute of Metals

Inst Pet J—Journal of the Institute of Petroleum

Instrument Soc Am J. See ISA J

Instruments & Control Systems—Instruments and Control Systems

Iron Age—Iron Age

Iron & Steel Eng—Iron and Steel Engineer

Iron & Steel Inst J—Journal of the Iron and Steel Institute

J Agri & Food Chem—Journal of Agricultural and Food Chemistry

J Ap Chem—Journal of Applied Chemistry

J Ap Mech. See ASME Trans

J Ap Phys—Journal of Applied Physics

J Basic Eng. See ASME Trans

J Colloid & Interface Sci—Journal of Colloid and Interface Science

J Colloid Sci—Journal of Colloid Science

J Eng Ind. See ASME Trans

J Eng Power. See ASME Trans

J Geol—Journal of Geology

J Heat Transfer. See ASME Trans

J Math & Phys—Journal of Mathematics and Physics

J Metals—Journal of Metals

J Nutrition—Journal of Nutrition

J Pet Tech—Journal of Petroleum Technology

J Res Nat Bur Stand—Journal of Research of the National Bureau of Standards

J Sci Instr—Journal of Scientific Instruments

Light Metal Age—Light Metal Age

Lub Eng—Lubrication Engineering

Mach—Machinery

Machine Design—Machine Design

Mag of Stand—Magazine of Standards

Manuf Chem—Manufacturing Chemist and Aerosol News

Marine Eng/Log—Marine Engineering/Log

Materials in Design Eng—Materials in Design Engineering

Materials Res & Stand—Materials Research and Standards

Math & Math Phys. See J Res Nat Bur Stand

Mech Eng—Mechanical Engineering

Metal Finishing—Metal Finishing

Metal Prog—Metal Progress

Metallurgia—Metallurgia, the International Journal of Metals & Materials

Mill & Factory—Mill & Factory

Min Cong J—Mining Congress Journal

Min Eng—Mining Engineering

Mod Materials Handling—Modern Materials Handling

Mod Metals—Modern Metals

Mod Phot—Modern Photography

Mod Plastics—Modern Plastics

Mod Textiles Mag—Modern Textiles Magazine

Naval Eng J—Naval Engineers Journal

Nucleonics—Nucleonics

Oil & Gas J—Oil and Gas Journal

Op Res—Operations Research

Paper Ind—Paper Industry

Pet Management—Petroleum Management

Phys & Chem. See J Res Nat Bur Stand

Phys Today—Physics Today

Pit & Quarry—Pit and Quarry

Plant Eng—Plant Engineering

Plastics Tech—Plastics Technology

Plastics World—Plastics World

Plating—Plating

Power—Power

Power Eng—Power Engineering

Proc Design. See Ind & Eng Chem

Product Eng—Product Engineering

Product Res & Develop. See Ind & Eng Chem

Prog Arch—Progressive Architecture

Pub Roads—Public Roads

Pub Works—Public Works

Q S T—QST

RCA R—RCA Review

R Sci Instr—Review of Scientific Instruments

Radio & Electronic Eng—Radio and Electronic Engineer

Radio Corp Am R. See RCA R

Radio-Electronics—Radio-Electronics

Radio Sci—Radio Science

Res/Develop—Research/Development

Roads & Sts—Roads and Streets

Rock Prod—Rock Products

Roy Aeronautical Soc J—Journal of the Royal Aeronautical Society

Rubber Age—Rubber Age

Rubber Chem & Tech—Rubber Chemistry and Technology

Rubber World—Rubber World

SAE J—SAE Journal

SMPTTE J—Journal of the Society of Motion Picture and Television Engineers

Safety Maint—Safety Maintenance

Sci Am—Scientific American

Soap & Chem Spec—Soap and Chemical Specialties

Soc Automotive Eng J. See SAE J

Soc Dyers & Col J—Journal of the Society of Dyers and Colourists

Soc Motion Picture & Tv Eng J. See SMPTTE J

Space/Aeronautics—Space/Aeronautics

Steel—Steel

Tappl—Tappi

Tech Assn Pulp & Paper Ind. See Tappi

Textile Ind—Textile Industries

Textile Res J—Textile Research Journal

Textile World—Textile World

Tool & Manuf Eng—Tool and Manufacturing Engineer

Traffic Q—Traffic Quarterly

WPCF J—Journal of the Water Pollution Control Federation

Water & Sewage Works—Water & Sewage Works

Water & Wastes Eng—Water and Wastes Engineering

Water Works & Wastes Eng—Water Works and Wastes Engineering

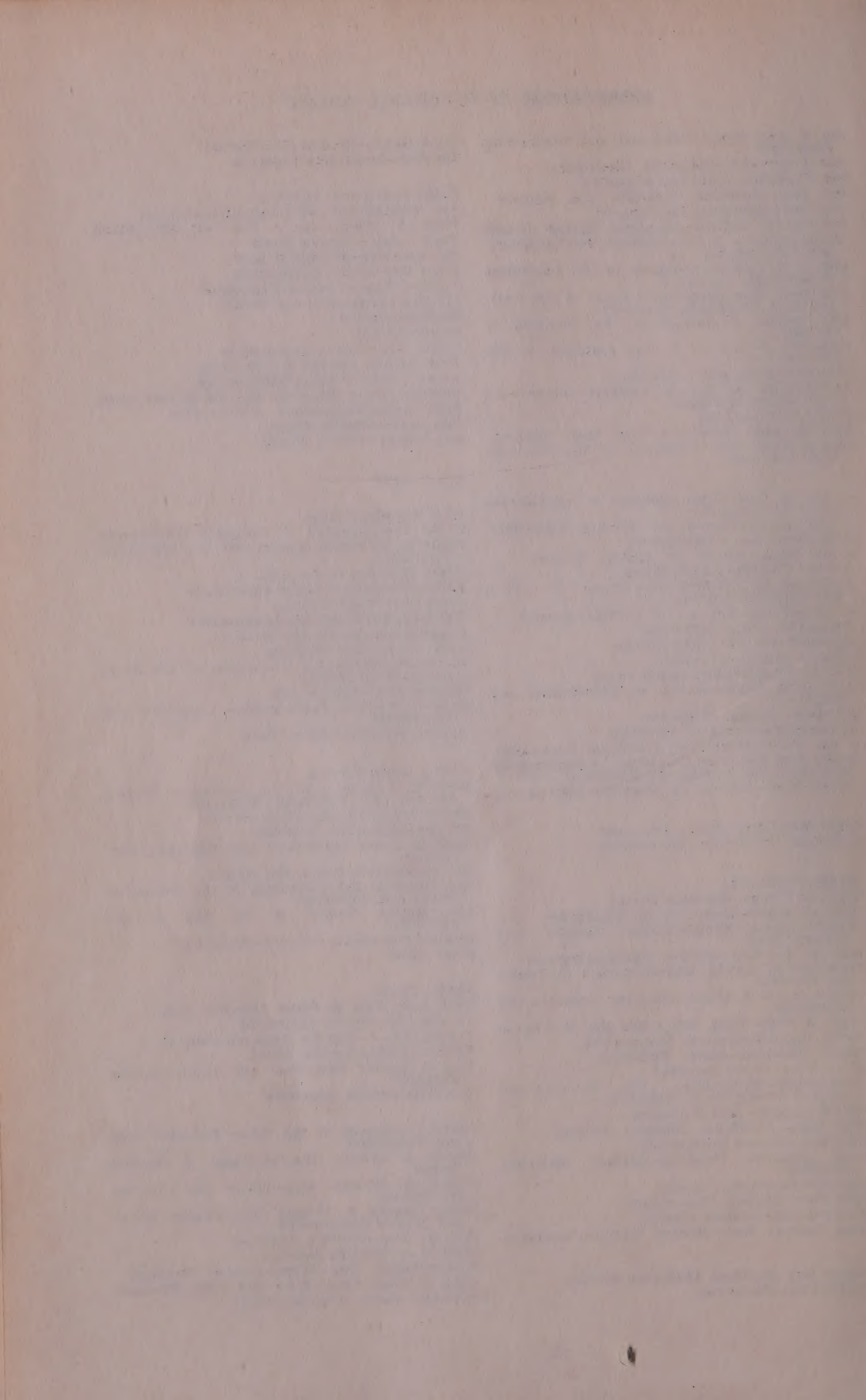
Welding Eng—Welding Engineer

Welding J—Welding Journal

Westinghouse Eng—Westinghouse Engineer

Wire & Wire Prod—Wire and Wire Products

Wireless World—Wireless World



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Applied Science & Technology Index

1966

EDITED BY
ELSA TOOM

INDEXER
RUDOLPH G. GIGLIO

MANAGING EDITOR
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SUPDORF O. CARLIS

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E. T.

Abbreviations of Periodicals Indexed

For full information consult pages vii to x

- AIAA J—AIAA Journal
 AIChE J—Journal of the American Institute of Chemical Engineers
 ASHRAE J—ASHRAE Journal
 ASME Trans—Transactions of the American Society of Mechanical Engineers
 Air Cond Heat & Ven—Air Conditioning, Heating and Ventilating
 Aircraft Eng—Aircraft Engineering
 Am Assn Pet Geologists Bul—Bulletin of the American Association of Petroleum Geologists
 Am Cer Soc Bul—Bulletin of the American Ceramic Society
 Am Cer Soc J—Journal of the American Ceramic Society
 Am Chem Soc J—Journal of the American Chemical Society
 Am Concrete Inst J—Journal of the American Concrete Institute
 Am Dyestuff Rep—American Dyestuff Reporter
 Am Gas Assn Mo—American Gas Association Monthly
 Am Inst Chem Eng J. See AIChE J
 Am J Clinical Nutrition—American Journal of Clinical Nutrition
 Am J Phys—American Journal of Physics
 Am J Pub Health—American Journal of Public Health and the Nation's Health
 Am Mach—American Machinist
 Am Mineralogist—American Mineralogist, Journal of the Mineralogical Society of America
 Am Oil Chem Soc J—Journal of the American Oil Chemists' Society
 Am Paper Ind—American Paper Industry
 Am Perfumer—American Perfumer and Cosmetics
 Am Scientist—American Scientist
 Am Soc C E Proc—Proceedings of the American Society of Civil Engineers
 Am Soc Heat Refrig & Air-Cond Eng J. See ASHRAE J
 Am Soc Mech Eng Trans. See ASME Trans
 Am Water Works Assn J—Journal American Water Works Association
 Anal Chem—Analytical Chemistry
 Arch Forum—Architectural Forum
 Arch Rec—Architectural Record
 Archives Environmental Health—Archives of Environmental Health
 Assn for Computing Mach J—Journal of the Association for Computing Machinery
 Astronautics & Aeronautics—Astronautics and Aeronautics
 Audio—Audio
 Audio Eng Soc J—Journal of the Audio Engineering Society
 Automation—Automation
 Automobile Eng—Automobile Engineer
 Automotive Ind—Automotive Industries
- Bell Lab Rec—Bell Laboratories Record
 Bell System Tech J—Bell System Technical Journal
 Brit Plastics—British Plastics
- Can Chem Process—Canadian Chemical Processing
 Can J Chem Eng—Canadian Journal of Chemical Engineering
 Can Min & Met Bul—Canadian Mining and Metallurgical Bulletin
 Cer Ind—Ceramic Industry
 Chem & Eng N—Chemical & Engineering News
- Chem & Ind—Chemistry and Industry
 Chem Eng—Chemical Engineering
 Chem Eng Prog—Chemical Engineering Progress
 Civil Eng—Civil Engineering—ASCE
 Coal Age—Coal Age
 Combustion—Combustion
 Comp Air Mag—Compressed Air Magazine
 Control Eng—Control Engineering
 Corrosion—Corrosion
- Diesel Equip Supt—Diesel Equipment Superintendent
 Dom Eng—Domestic Engineering
 Drug & Cosmetic Ind—Drug and Cosmetic Industry
- Econ Geol—Economic Geology and the Bulletin of the Society of Economic Geologists
 Elec Com—Electrical Communication
 Elec Constr & Maint—Electrical Construction and Maintenance
 Elec World—Electrical World
 Electro-Tech—Electro-Technology
 Electrochem Soc J—Journal of the Electrochemical Society
 Electronic Eng—Electronic Engineering
 Electronic Engineer—Electronic Engineer
 Electronic Ind—Electronic Industries
 Electronics—Electronics
 Eng & Instrumentation. See J Res Nat Bur Stand
 Eng & Min J—Engineering and Mining Journal
 Eng J—Engineering Journal
 Eng N—Engineering News-Record
 Engineer—Engineer
 Engineering—Engineering
- Food Eng—Food Engineering
 Food Tech—Food Technology
 Foundry—Foundry
 Franklin Inst J—Journal of the Franklin Institute
 Fundamentals. See Ind & Eng Chem
- Gas—Gas
 Gas Age—Gas Age
 Geol Soc Bul—Bulletin of the Geological Society of America
 Geophysics—Geophysics
 Glass Ind—Glass Industry
- Heating-Piping—Heating, Piping and Air Conditioning
 Hydraulics & Pneumatics—Hydraulics & Pneumatics
 Hydrocarbon Process—Hydrocarbon Processing
- IEEE Proc—Proceedings of the IEEE
 IEEE Trans Applications & Ind—IEEE Transactions on Applications and Industry
 IEEE Trans Com & Electronics—IEEE Transactions on Communication and Electronics
 IEEE Trans Com Tech—IEEE Transactions on Communication Technology
 IEEE Trans Ind & Gen Applications—IEEE Transactions on Industry and General Applications
 IEEE Trans Power Apparatus & Systems—IEEE Transactions on Power Apparatus and Systems
 ISA J—ISA Journal

Illum Eng—Illuminating Engineering, The Journal of the Illuminating Engineering Society
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Ap Sci Ann/66

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Welding J—Welding Journal

Westinghouse Eng—Westinghouse Engineer

Wire & Wire Prod—Wire and Wire Products

Wireless World—Wireless World



List of Periodicals Indexed

- AIAA Journal.** m American Institute of Aeronautics and Astronautics, Inc, 1290 Avenue of the Americas, New York 10019
Price on request
- AIChE Journal.** \$25 bi-m American Institute of Chemical Engineers, 345 E 47th St, New York 10017
- ASHRAE Journal.** \$10 m American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc, 345 E 47th St, New York 10017
- ASME Transactions.** \$15 American Society of Mechanical Engineers, 345 E 47th St, New York 10017
Published in 5 parts: ser A, Journal of Engineering for Power, q (Ja); ser B, Journal of Engineering for Industry, q (F); ser C, Journal of Heat Transfer, q (F); ser D, Journal of Basic Engineering, q (Mr); ser E, Journal of Applied Mechanics, q (Mr)
\$7.50 to members and affiliates
- Air Conditioning, Heating and Ventilating.** \$7 m Industrial Press, Inc, 200 Madison Av, New York 10016
- Aircraft Engineering.** 60s; U.S. \$9; Canada \$9 m Bunhill Publications, Ltd, 4 Ludgate Circus, London, E.C. 4
- American Association of Petroleum Geologists Bulletin.** \$30 m American Association of Petroleum Geologists, Inc, Box 979, Tulsa Okla. 74101
- American Ceramic Society Bulletin.** \$6 m American Ceramic Society, 4055 N High St, Columbus, Ohio 43214
- American Ceramic Society Journal; Ceramic Abstracts.** \$25 including Ceramic Bulletin m American Ceramic Society, 4055 N High St, Columbus, Ohio 43214
- American Chemical Society Journal.** \$32 bi-w American Chemical Society, 1155 16th St, N.W. Washington, D.C. 20036
- American Concrete Institute Journal.** \$18 m American Concrete Institute, P.O. Box 4754 Redford Station, Detroit, Mich. 48219
- American Dyestuff Reporter.** \$7.50 bi-w Howes Pub. Co. Inc, 44 E 23d St, New York 10010
- American Gas Association Monthly.** \$5 m (bi-m JI-Ag) American Gas Assn, Inc, 605 Third Av, New York 10016
- American Institute of Chemical Engineers Journal.** See A I Ch E Journal
- American Journal of Clinical Nutrition.** \$15 m The American Journal of Clinical Nutrition, Inc, 466 Lexington Av, New York 10017
- American Journal of Physics.** \$12.50 m American Institute of Physics, Inc, 335 E 45th St, New York 10017
- American Journal of Public Health and the Nation's Health.** \$15 m American Public Health Association, Inc, 1790 Broadway, New York 10019
- American Machinist.** \$20 bi-w McGraw-Hill, Inc, 330 W 42d St, New York 10036
- American Mineralogist.** Journal of the Mineralogical Society of America. \$15 bi-m U.S. Geological Survey, Washington, D.C. 20242
- American Oil Chemists' Society Journal.** \$12 m American Oil Chemists' Society, 35 E Wacker Drive, Chicago 60601
- American Paper Industry.** single numbers \$1.25 m Paper Industry Management Assn, 2570 Devon Av, Des Plaines, Ill. 60018
Formerly Paper Industry; changed January, 1966
- American Perfumer and Cosmetics.** \$7.50 m Alured Pub. Corp. 1031 South Blvd, Oak Park, Ill. 60302
October is Documentary Edition. \$3
- American Scientist.** \$3.50 q Society of the Sigma Xi, 155 Whitney Av, New Haven, Conn. 06510
- American Society of Civil Engineers Proceedings.** m American Society of Civil Engineers, 345 E 47th St, New York 10017
Proceedings of each division published separately. AT, CO, IR, UP, HW, PL, PO, PP, SU \$4; EM, HY, SA, SM, ST \$8; WW \$6
- American Society of Heating, Refrigerating and Air-Conditioning Engineers Journal.** See ASHRAE Journal
- American Society of Mechanical Engineers Transactions.** See ASME Transactions
- American Water Works Association Journal.** m American Water Works Assn. Inc, 2 Park Av, New York 10016
- Analytical Chemistry.** \$5 m American Chemical Society, 1155 16th St, N.W. Washington, D.C. 20036
- Architectural Forum.** \$12 10 times a year Architectural Forum, 111 W 57th St, New York 10019
- Architectural Record.** \$6 m McGraw-Hill Publications, 330 W 42d St, New York 10036
Extra number published in Mid-May
- Archives of Environmental Health.** \$12 m American Medical Association, 535 N Dearborn St, Chicago 60610
- Association for Computing Machinery Journal.** \$15 q Association for Computing Machinery, 211 E 43d St, New York 10017
- Astronautics & Aeronautics.** m American Institute of Aeronautics and Astronautics, 1290 Avenue of the Americas, New York 10019
Price on request
- Audio.** \$5 m North American Pub. Co, 134 N 13th St, Philadelphia, Pa. 19107
- Audio Engineering Society Journal.** \$11 q Audio Engineering Society, 60 E 42d St, New York 10017
- Automation.** \$10 m Penton Pub. Co. Penton Bldg, Cleveland 44113
- Automobile Engineer.** £4 5s; U.S. \$12; Canada \$12 m Iliffe Transport Publications, Ltd. Dorset House, Stamford St, London, S.E. 1
Extra number published in May
- Automotive Industries.** \$10 s-m Chilton Co. Chestnut & 56th Sts, Philadelphia 19139
- Bell Laboratories Record.** \$2 m Bell Telephone Laboratories, Inc, Mountain Av, Murray Hill, N.J. 07971
- Bell System Technical Journal.** \$5 10 times a yr American Telephone and Telegraph Co. 195 Broadway, New York 10007
- British Plastics.** £3 10s; U.S. \$11.50 Canada \$11.50 m Iliffe Industrial Publications, Ltd. Dorset House, Stamford St, London, S.E. 1
- Canadian Chemical Processing.** \$6; U.S. \$10 m Southam Business Publications, Ltd, 1450 Don Mills Rd, Don Mills, Ontario, Canada
- Canadian Journal of Chemical Engineering.** \$7.50; U.S. \$10 bi-m Chemical Institute of Canada, 161 Slater St, Ottawa 4, Ont.
- Canadian Mining and Metallurgical Bulletin.** \$10; U.S. \$12 m Canadian Institute of Mining and Metallurgy, 906 Drummond Bldg, Montreal, Que.
- Ceramic Industry.** \$5 m Cahners Pub. Co. Inc, 5 So Wabash Av, Chicago 60603
- Chemical & Engineering News.** \$6 w American Chemical Society, 1155 16th St, N.W. Washington, D.C. 20036
- Chemical Engineering.** \$3 bi-w McGraw-Hill Inc, 330 W 42d St, New York 10036
- Chemical Engineering Progress.** \$25 m American Institute of Chemical Engineers, 345 E 47th St, New York 10017
- Chemistry and Industry.** £7 w Society of Chemical Industry, 14 Belgrave Square, London, S.W. 1
- Civil Engineering—ASCE.** \$7 m American Society of Civil Engineers, 345 E 47th St, New York 10017
- Coal Age.** \$3 m McGraw-Hill, Inc, 330 W 42d St, New York 10036
- Combustion.** \$4 m Combustion Pub. Co, Inc, 277 Park Av, New York 10017
- Compressed Air Magazine.** \$5 m Compressed Air Magazine Co, 942 Memorial Parkway, Phillipsburg, N.J. 08865
- Control Engineering.** \$10 m Reuben H. Donnelly Corp, 466 Lexington Av, New York 10017
- Corrosion.** \$10 m National Association of Corrosion Engineers, Inc, 2400 West Loop South, Houston, Tex. 77027

- Diesel Equipment Superintendent.** \$4 m Diesel Publications, Inc, 80 Lincoln Av, Stamford, Conn. 06904
- Domestic Engineering.** \$10 m Medalist Publications, Inc, 1801 Prairie Av, Chicago 60616
- Drug & Cosmetic Industry.** \$5 m Drug Markets, Inc, 101 W 31st St, New York 10001
- Economic Geology and the Bulletin of the Society of Economic Geologists.** \$12 s-q Economic Geology Pub. Co, R. V. Dietrich, Business Editor, Box 26, Blacksburg, Va. 24060
- Electrical Communication.** \$2 q International Telephone and Telegraph Corp, 320 Park Av, New York 10022
- Electrical Construction and Maintenance.** \$3 m McGraw-Hill, Inc, 330 W 42d St, New York 10036
- Electrical World.** \$8 w McGraw-Hill, Inc, 330 W 42d St, New York 10036
- Electrochemical Society Journal.** \$24 m Electrochemical Society, 30 E 42d St, New York 10017
- Electronic Engineer.** \$12 m Chilton Co, Chestnut & 56th Sts, Philadelphia 19139
Formerly Electronic Industries; changed August 1966
- Electronic Engineering.** £2 15s; U.S. \$8; Canada \$8 m Morgan Brothers, Ltd, 28 Essex St, Strand, London, W.C. 2
- Electronic Industries.** \$10 m Chilton Co, Chestnut & 56th Sts, Philadelphia 19139
Name changed to Electronic Engineer August 1966
- Electronics.** \$8 bi-w McGraw-Hill, Inc, 330 W 42d St, New York 10036
- Electro-Technology.** \$15 m Conover-Mast Publications, Inc, 205 E 42d St, New York 10017
- Engineer.** £5 10s; U.S. \$16 w Morgan Brothers, Ltd, 28 Essex St, Strand, London, W.C. 2
- Engineering.** £5 10s w Engineering Ltd, 36 Bedford St, London, W.C. 2
- Engineering and Instrumentation.** See Journal of Research of the National Bureau of Standards
- Engineering and Mining Journal.** \$4 m McGraw-Hill, Inc, 330 W 42d St, New York 10036
- Engineering Journal.** \$10 m Engineering Institute of Canada, 2050 Mansfield St, Montreal 2, Que.
- Engineering News-Record.** \$7 w McGraw-Hill, Inc, 330 W 42d St, New York 10036
- Food Engineering.** \$25 m Chilton Co, Chestnut & 56th Sts, Philadelphia 19139
- Food Technology.** \$14.50 m Institute of Food Technologists, 221 North LaSalle St, Chicago 60601
- Foundry.** \$10 m Penton Pub. Co, Penton Bldg, Cleveland 44113
- Franklin Institute Journal.** \$20 m Franklin Institute of the State of Pennsylvania, Benjamin Franklin Parkway at 20th St, Philadelphia 19103
- Fundamentals.** See Industrial and Engineering Chemistry
- Gas.** \$9 m Chilton Co, 56th & Chestnut Sts, Philadelphia 19139
- Gas Age.** \$5 m Moore Pub. Co, Inc, Ojibway Building, Duluth, Minn. 55802
- Geological Society of America Bulletin.** \$35 m Geological Society of America, 231 E 46th St, New York 10017
- Geophysics.** \$10 bi-m Society of Exploration Geophysicists, 3707 E 51st St, Tulsa, Okla. 74135
- Glass Industry.** \$7 m Glass Pub. Co, Inc, 777 Third Av, New York 10017
- Heating, Piping & Air Conditioning.** \$5 m Reinhold Pub. Corp, Keeney Div, 10 S LaSalle St, Chicago 60603
- Hydraulics & Pneumatics.** \$12 m Industrial Pub. Co, 812 Huron Rd, Cleveland 44115
- Hydrocarbon Processing.** \$5 m Gulf Pub. Co, P.O. Box 2608, Houston, Tex. 77001
Formerly Hydrocarbon Processing & Petroleum Refiner; changed June, 1966
- Hydrocarbon Processing & Petroleum Refiner.** \$4 m Gulf Pub. Co, P.O. Box 2608, Houston, Tex. 77001
Name changed to Hydrocarbon Processing, June, 1966
- IEEE Proceedings.** m Institute of Electrical and Electronics Engineers, Inc, 345 E 47th St, New York 10017
Price on request
- IEEE Transactions on Communication Technology.** \$30 bi-m Institute of Electrical and Electronics Engineers, Inc, 345 E 47th St, New York 10017
Changed to bi-monthly February, 1966
- IEEE Transactions on Industry and General Applications.** \$30 bi-m Institute of Electrical and Electronics Engineers, Inc, 345 E 47th St, New York 10017
- IEEE Transactions on Power Apparatus and Systems.** m Institute of Electrical and Electronics Engineers, Inc, 345 E 47th St, New York 10017
Price on request
- ISA Journal.** \$4 m Instrument Society of America, Penn-Sheraton Hotel, 530 William Penn Pl, Pittsburgh 15219
- Illuminating Engineering, the Journal of the Illuminating Engineering Society.** \$18 m Illuminating Engineering Society, 345 E 47th St, New York 10017
- Industrial and Engineering Chemistry.** m American Chemical Society, 1155 16th St, N.W. Washington, D.C. 20036
Sold only in combination with one or more I&EC quarterlies; Process Design and Development (Ja); Fundamentals (F); Product Research and Development (Mr) One quarterly \$5; two \$8.50; three \$12 Subscriptions must begin with January and end with December
- Industrial Electronics.** £3; U.S. and Canada \$10 m Iliffe Electrical Publications, Ltd, Dorset House, Stamford St, London, S.E. 1
- Industrial Finishing.** \$3 m Practical Publications, Inc, 1142 N. Meridian St, Indianapolis 46204
- Industrial Medicine and Surgery.** \$10 m Industrial Medicine Pub. Co, 1305 St. Clair Av, Sheboygan, Wis. 53081
- Industrial Photography.** \$6 m United Business Publications, Inc, 200 Madison Av, New York 10016
- Industrial Quality Control.** m American Society for Quality Control, Inc, 161 W Wisconsin Av, Milwaukee 53203
- Inland Printer/American Lithographer.** \$5 m Maclean-Hunter Pub. Corp, 300 W Adams St, Chicago 60606
- Institute of Metals Journal.** separate papers Institute of Metals, 17 Belgrave Square, London, S.W. 1
- Institute of Petroleum Journal.** £6 6s m Institute of Petroleum, 61 New Cavendish St, London, W. 1
- Institution of Electrical Engineers Proceedings.** £18 m The Institution, Savoy Place, London, W.C. 2
- Institution of Mechanical Engineers Proceedings.** separate papers Institution of Mechanical Engineers, 1 Birdcage Walk, Westminster, London, S.W. 1
- Instrument Society of America Journal.** See ISA Journal
- Instruments and Control Systems.** \$4 m Instruments and Control Systems, 845 Ridge Av, Pittsburgh 15212
- Iron Age.** \$25 w Chilton Co, Chestnut & 56th Sts, Philadelphia 19139
- Iron and Steel Engineer.** \$7.50 m Association of Iron and Steel Engineers, 1010 Empire Bldg, Pittsburgh 15222
- Iron and Steel Institute Journal.** £24 m Iron and Steel Institute, 4 Grosvenor Gardens, London, S.W. 1
- Journal of Agricultural and Food Chemistry.** \$20 bi-m American Chemical Society, 1155 16th St, N.W. Washington, D.C. 20036
- Journal of Applied Chemistry.** £18 m Society of Chemical Industry, 14 Belgrave Square, London, S.W. 1
- Journal of Applied Mechanics.** See ASME Transactions
- Journal of Applied Physics.** \$25 m (s-m Mr) American Institute of Physics, 335 E 45th St, New York 10017
\$15 to members and associate members of the American Institute of Physics
- Journal of Basic Engineering.** See ASME Transactions
- Journal of Colloid and Interface Science.** \$36 m Academic Press Inc, 111 5th Av, New York 10003
Formerly Journal of Colloid Science; changed January, 1966

- Journal of Colloid Science.** \$28 9 times a yr Academic Press Inc, 111 5th Av, New York 10003
Name changed to Journal of Colloid and Interface Science January, 1966
- Journal of Engineering for Industry.** See ASME Transactions
- Journal of Engineering for Power.** See ASME Transactions
- Journal of Geology.** \$14 bi-m University of Chicago Press, 6750 Ellis Av, Chicago 60637
- Journal of Heat Transfer.** See ASME Transactions
- Journal of Mathematics and Physics.** \$8 q Massachusetts Institute of Technology, Cambridge, Mass. 02139
- Journal of Metals.** \$10 m American Institute of Mining, Metallurgical and Petroleum Engineers, Inc. 345 E 47th St, New York 10017
- Journal of Nutrition.** \$22.50 m Wistar Institute of Anatomy and Biology, 36th St at Spruce, Philadelphia 19104
- Journal of Petroleum Technology.** \$8 m Society of Petroleum Engineers of AIIME, 6200 North Central Expressway, Dallas 75206
- Journal of Research of the National Bureau of Standards.** Superintendent of Documents, Washington, D.C. 20402
Published in 4 sections: A. Physics and Chemistry \$5 bi-m; B. Mathematics and Mathematical Physics \$2.25 q; C. Engineering and Instrumentation \$2.75 q; D. Radio Science \$9 m. Became separate pub. January, 1966
- Journal of Scientific Instruments.** £8 m Institute of Physics and the Physical Society, 47 Belgrave Square, London, S.W. 1
- Light Metal Age.** \$6 bi-m Roy Fellom, Jr. 693 Mission St, San Francisco 94105
- Lubrication Engineering.** \$11 m American Society of Lubrication Engineers, 838 Busse Highway, Park Ridge, Ill. 60068
- Machine Design.** \$10 bi-w Penton Pub. Co. Penton Bldg, Cleveland 44113
- Machinery.** \$10 m Industrial Press, Inc, 200 Madison Av New York 10016
- Magazine of Standards.** \$7 m United States of America Standards Institute, 10 E 40th St, New York 10016
- Manufacturing Chemist and Aerosol News.** £6; U.S. \$18 m Grampian Press, Ltd, The Tower, 229-243 Shepherd's Bush Road, London, W.6
- Marine Engineering/Log.** \$6 m (s-m in June) Simmons-Boardman Pub. Corp, Emmett St, Bristol, Conn. 06010
- Materials in Design Engineering.** \$12 m Reinhold Pub. Corp, 430 Park Av, New York 10022
Extra number published in Mid-October
- Materials Research & Standards.** \$5 m American Society for Testing and Materials, 1916 Race St, Philadelphia 19103
- Mathematics and Mathematical Physics.** See Journal of Research of the National Bureau of Standards
- Mechanical Engineering.** \$7 m American Society of Mechanical Engineers, 345 E 47th St, New York 10017
- Metal Finishing.** \$5 m Metals and Plastics Publications, Inc, 99 Kinderkamack Road, Westwood, N.J. 07675
- Metal Progress.** \$9 m American Society for Metals, Metals Park, Ohio. 44073
- Metallurgia, the International Journal of Metals & Materials.** £2 10s m Kennedy Press, Ltd, 31 King St, W Manchester 3
Formerly Metallurgia, the British Journal of Metals, changed July, 1966
- Mill & Factory.** \$10 m Conover-Mast Publications, Inc, 205 E 42d St, New York 10017
- Mining Congress Journal.** \$3 m American Mining Congress, Ring Bldg, Washington, D.C. 20036
- Mining Engineering.** \$10 m American Institute of Mining, Metallurgical and Petroleum Engineers, Inc. 345 E 47th St, New York 10017
- Modern Materials Handling.** \$8 m Cahners Pub. Co, Inc, 221 Columbus Av, Boston 02116
- Modern Metals.** \$10 m Modern Metals Pub. Co, 435 N. Michigan Av, Chicago 60611
- Modern Photography.** \$5 m Modern Photography, 165 W 46th St, New York 10036
- Modern Plastics.** \$10 m McGraw-Hill, Inc, 330 W 42d St, New York 10036
- Modern Textiles Magazine.** \$5 m Rayon Pub. Corp, 303 Fifth Av, New York 10016
- Naval Engineers Journal.** \$20 bi-m American Society of Naval Engineers, Inc, 1012 14th St, NW Washington, D.C. 20005
- Nucleonics.** \$8 m McGraw-Hill, Inc, 330 W 42d St, New York 10036
- Oil and Gas Journal.** \$7 w Petroleum Pub. Co. 211 South Cheyenne, Tulsa, Okla. 74101
- Operations Research.** \$10 bi-m Operations Research Society of America, Mt Royal and Guilford Aves, Baltimore 21202
- Paper Industry.** \$5 m Paper Industry Management Assn, 2570 Devon Av, Des Plaines, Ill. 60018
Name changed to American Paper Industry, January, 1966
- Petroleum Management.** \$7 m (s-m JI) Petroleum Engineer Pub. Co, 800 Davis Bldg, Dallas 75201
- Physics and Chemistry.** See Journal of Research of the National Bureau of Standards
- Physics Today.** \$4 m American Institute of Physics, 335 E 45th St, New York 10017
- Pit and Quarry.** \$7 m Pit and Quarry Publications, Inc, 431 S Dearborn St, Chicago 60605
- Plant Engineering.** \$10 m Technical Pub. Co, 308 E James St, Barrington, Ill. 60010
- Plastics Technology.** \$10 m Plastics Technology Magazine, 630 Third Av, New York 10017
- Plastics World.** \$8 m Cahners Pub. Co, Inc, 221 Columbus Av, Boston, Mass. 02116
- Plating.** \$10 m American Electroplaters' Society, Inc, 443-445 Broad St, Newark, N.J. 07102
- Power.** \$3 m McGraw-Hill, Inc, 330 W 42d St, New York 10036
- Power Engineering.** \$10 m Technical Pub. Co, 308 E James St, Barrington, Ill. 60010
- Process Design and Development.** See Industrial and Engineering Chemistry
- Product Engineering.** \$15 bi-w McGraw-Hill Inc, 330 W 42d St, New York 10036
- Product Research and Development.** See Industrial and Engineering Chemistry
- Progressive Architecture.** \$10 m Reinhold Pub. Corp, 430 Park Av, New York 10022
- Public Roads.** \$1.50 bi-m Superintendent of Documents, Washington, D.C. 20402
- Public Works.** \$7 m Public Works Journal Corp, 200 S Broad St, Ridgewood, N.J. 07450
- QST.** \$6 m American Radio Relay League, Inc, 225 Main St, Newington, Conn. 06111
- RCA Review.** \$2 q Radio Corporation of America, RCA Laboratories Division, Princeton N.J. 08540
- Radio and Electronic Engineer.** £6 10s m Institution of Electronic and Radio Engineers, 8-9 Bedford Square, London, W.C. 1
- Radio Corporation of America Review.** See RCA Review
- Radio-Electronics.** \$5 m Gernsback Publications, Inc, Boulder, Colo. 80302
- Radio Science.** \$9 m Superintendent of Documents, Washington, D.C. 20402
Formerly Section D, Journal of Research of the National Bureau of Standards; changed January, 1966
- Research/Development.** m F. D. Thompson Publications, Inc, 205 W Wacker Drive, Chicago 60606
- Review of Scientific Instruments.** \$13 m American Institute of Physics, 335 E 45th St, New York 10017
\$11 to members of scientific societies
- Roads and Streets.** \$6 m The Reuben H. Donnelly Corp, 466 Lexington Av, New York 10017
- Rock Products.** \$10 m Maclean-Hunter Pub. Corp, 300 W Adams St, Chicago 60606
- Royal Aeronautical Society Journal.** £10 10s m Royal Aeronautical Society, 4 Hamilton Place, London, W. 1
- Rubber Age.** \$5 m Palmerton Pub. Co, Inc, 101 W 31st St, New York 10001
- Rubber Chemistry and Technology.** \$14.50 5 times a yr American Chemical Society, Division of Rubber Chemistry, Prince and Leam Sts, Lancaster, Pa. 17604
- Rubber World.** \$7 m Bill Brothers Pub. Corp, 630 3d Av, New York 10017

- SAE Journal**, \$12 m Society of Automotive Engineers, Inc, 485 Lexington Av, New York 10017
- SMPT E Journal**, \$16 m Society of Motion Picture and Television Engineers, 9 E 41st St, New York 10017
- Safety Maintenance**, \$4 m Alfred M. Best Co, Inc, Box 600, Morristown, N.J. 07960
- Scientific American**, \$7 m Scientific American, Inc, 415 Madison Av, New York 10017
- Soap and Chemical Specialties**, \$4 m MacNair-Dorland Co, Inc, 254 W 31st St, New York 10001
- Soap Blue Book** is extra number
- Society of Automotive Engineers Journal**. See SAE Journal
- Society of Dyers and Colourists Journal**, £8 8s m Society of Dyers and Colourists, Dean House 19 Piccadilly, Bradford 1, Yorkshire, England
- Society of Motion Picture and Television Engineers Journal**. See SMPTE Journal
- Space/Aeronautics**, \$15 m (s-m JI) Conover-Mast Publications, Inc, 205 E 42d St, New York 10017
- Steel**, \$25 w Penton Pub. Co, Penton Bldg, Cleveland 44113
- Tappi**, single numbers \$1.75 m Technical Association of the Pulp and Paper Industry, 360 Lexington Av, New York 10017
- Technical Association of the Pulp and Paper Industry**. See Tappi
- Textile Industries**, \$2 m (s-m Je) W. R. C. Smith Pub. Co, 1760 Peachtree Rd, N.W. Atlanta 30309
- Textile Research Journal**, \$25 m Textile Research Institute, Inc, Publications Department, P.O. Box 625, Princeton, N.J. 08540
- Textile World**, \$10 m McGraw-Hill, Inc, 330 W 42d St, New York 10036
- Tool and Manufacturing Engineer**, \$7.50 m American Society of Tool and Manufacturing Engineers, 20501 Ford Road, Dearborn, Mich. 48128
- Traffic Quarterly**, q Eno Foundation for Highway Traffic Control, Inc, Saugatuck, Conn. 06880
- Price on request
- Water & Sewage Works**, \$5 m Scranton Pub. Co, Inc, 35 E Wacker Drive, Chicago 60601
- Extra number published in the fall
- Water and Wastes Engineering**, \$5 m Water and Wastes Engineering, 466 Lexington Av, New York 10017
- Formerly Water Works and Wastes Engineering; changed January, 1966
- Water Pollution Control Federation Journal**, \$18.50 m Water Pollution Control Federation, 3900 Wisconsin Av, Washington, D.C. 20016
- Water Works and Wastes Engineering**, \$5 m Water Works and Wastes Engineering, 466 Lexington Av, New York 10017
- Name changed to Water and Wastes Engineering, January, 1966
- Welding Engineer**, \$3 m Welding Engineer Publications, Inc, 5826 Dempster St, Morton Grove, Ill. 60053
- Extra number published in Mid-June
- Welding Journal**, \$10 m American Welding Society, 345 E 47th St, New York 10017
- Westinghouse Engineer**, \$2.50 bi-m Westinghouse Engineer, P.O. Box 2278, 3 Gateway Center, Pittsburgh 15230
- Wire and Wire Products**, \$8; Canada \$8 m Haire Pub. Co, Inc, 111 Fourth Av, New York 10003
- Wireless World**, £2 6s; U.S. \$8; Canada \$8 m Iliffe Electrical Publications, Ltd, Dorset House, Stamford St, London, S.E. 1

Key to General Abbreviations

+	continued on later pages of the issue	Jl	July
abr	abridged	Mr	March
Ag	August	My	May
Ap	April	N	November
bibliog	bibliography	n s	new series
comp	compiled or compiler	no	number
cond	condensed	O	October
cont	continued	p	page
D	December	pl	plate
diag	diagram	por	portrait
ed	edited or edition or editor	pt	part
F	February	rev	revised
il	illustrations	S	September
inc	incorporated	sup	supplement
Ja	January	tr	translated or translation or translator
Je	June	v	volume
		yrbk	yearbook

Sample entry: AUTOMOBILE racing
GM-powered speedsters win two or three
Nassau races. H. W. Barclay. il map
Automotive Ind 134:19-21+ Ja 1 '66

Explanation: An illustrated article with map, on the sub-
ject AUTOMOBILE racing entitled "GM-
powered speedsters win two or three Nas-
sau races," by H. W. Barclay, will be
found in volume 134 of Automotive Indus-
tries, page 19-21 (continued on later pages
of the same issue) the January 1, 1966
number



Applied Science & Technology Index

1966

- AACC.** See American association for contamination control
- ABS resin.** See Resinous products
- ACTH**
Adrenocorticotropins; synthesis of a biologically active prolinol analog of the non-adeceptide corresponding to the amino-terminal portion of the ACTH molecule. W. Oelofsen and C. H. Ll. bibliog Am Chem Soc J 88:4254-60 S 20 '66
- AALTO, Alvar**
Aalto revisited. II plans diag Arch Forum 124:70-9 Ap '66
- ABATTOIRS.** See Slaughtering and slaughter houses
- ABBREVIATIONS**
See also
Acronyms
Symbols
- ABERRATION (optics)**
Precision method for evaluating primary aberrations of lenses with a Twyman interferometer. J. B. Saunders. II diag J Res Nat Bur Stand 69C:251-5 O '65
Some applications of the wave front shearing interferometer. J. B. Saunders. II diag J Res Nat Bur Stand 69C:245-9 O '65
- ABILITY**
See also
Creative ability
- ABILITY tests**
Four-point approach to appraising managerial talent. E. Raudsepp. Machine Design 38:92-9 F 3 '66
Graduate-record examination advanced physics test as a predictor of performance. W. C. Michels. Am J Phys 34:862-6 pt 2 S '66
Job laws prompt reshaped hiring practices. Chem & Eng N 43:25 N 22 '65
Word association tests point to snags in controls. J. Kolb. II Product Eng 37:42-4 O 24 '66
- ABLATION shielding.** See Shielding (heat)
- ABPLANALP, Robert H.**
Honored by New York advertising club. por Soap & Chem Spec 42:139+ JI '66
- ABRAMS, Allen**
TAPPI gold medal; with presentation and acceptance speech. G. W. E. Nicholson. por Tappi 49:sup51A-3A Mr '66
- ABRASION**
Abrasion resistance and high speed tensile strength of elastomers. R. Ecker. bibliog diag Rubber Chem & Tech 39:823-40 S '66
Abrasion resistance; some tests misleading. E. Green. Ind Finishing 42:76 Ja '66
Abrasion resistance test methods. H. Tovey. Am Dyestuff Rep 55:635-6 Ag 15 '66
Abrasion-resistant durable-press cottons. W. A. Reeves and others. bibliog Textile Ind 130:107-8+ S '66
Chrome alloy strips resist abrasion. II Welding Eng 51:68-9 Ja '66
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Hardness and abrasion resistance of bright silver electrodeposits; tr. by D. G. Foulke. R. Weiner. Plating 53:894-8 JI '66
Is abrasion wearing you down? W. S. Hutchings. II diag Rock Prod 69:86-7 S '66
Relation between abrasion and strength of rubber. K. A. Grosch and A. Schallamach. bibliog II diag Rubber Chem & Tech 33:287-305 Mr '66
- Report of subcommittee on frosting of national research committee RA29. J. P. Patton, Jr. II Am Dyestuff Rep 55:638-41 Ag 15 '66
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- Sprayed ceramics protect equipment. J. M. Karet. II Chem Eng 73:178+ Je 6 '66
- ABRASIVE belts**
Centreless grinding by abrasive belt. II Engineering 201:89-90 Ja 14 '66
Coated abrasive belts can help foundries. Steel 157:33 D 13 '65
- Controlling belt air. W. A. Fazioli. II Tool & Manuf Eng 57:32-4 JI '66; Same. diag Mill & Factory 79:52-3 Ag '66
- More efficient exhaust systems for abrasive-belt grinding. W. A. Fazioli. diag Mach 72:99-101 JI '66
- ABRASIVES**
Abrasion vs. acid pickling. II Chem & Eng N 44:22-3 O 3 '66
- Abrasive machining gets more muscle. A. W. Young. II Iron Age 197:112 My 26 '66
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- Abrasive maker's systems approach opens new markets. II Steel 157:37-41 D 27 '65
- Abrasives industry sets sights for rough grind. II Iron Age 197:108 Mr 10 '66
- Chemical and mechanical mechanisms in wear of sapphires on steel. N. S. Eliss, Jr. and R. G. Fabianak. bibliog II diag Am Cer Soc J 49:221-6 Ap '66
- High precision abrasive machining. R. C. Merrick. II diag Mach 73:109-13 S '66
- Nitrogen-doped synthetic diamond abrasive. Metallurgia 73:190 Ap '66
- Selection and use of chemical compounds for vibratory finishing. W. E. Brandt. II Tool & Manuf Eng 56:26-30 Mr '66
- See also
Abrasive belts
Metal finishing
Polishing
- ABSENTEEISM (labor)**
Absenteeism; a study in controls. W. F. Kliesch and M. K. Wheeler. diag Ind Med 35:190-1+ Mr '66
- How mental health affects company progress. L. N. Loban. Ind Med 35:683-7 Ag '66
- Social causes of sick absence. P. E. Enterline. bibliog Archives Environmental Health 12:467-73 Ap '66
- Some economic estimates of job disruption. W. W. Winslow and others. bibliog Archives Environmental Health 13:213-19 Ag '66
- See also
Sickness
- ABSORBENTS**
Chemical dehumidification protects microfilm records stored in mountain vaults. N. W. Clayton and G. H. Fudge. II Heating-Piping 33:127-9 O '66

ABSORPTION

- Absorptiometric methods in rapid silicate analysis. C. O. Ingamells. *bibliog Anal Chem* 38:1228-34 Ag '66
- Absorption, degassing, and solution equilibrium in the nitrogen-niobium system at ultrahigh vacuum and high temperature. R. A. Pasternak and others. *bibliog Electrochem Soc J* 113:731-5 J1 '66
- Absorption of electrolytically generated hydrogen. F. Matsuda and T. C. Franklin. *bibliog diag Electrochem Soc J* 112:767-71; 113:631-2 Ag '65, Je '66
- Absorption rate of hydrogen in steel. F. de Kazanczy and N. E. Hannerz. *Iron & Steel Inst J* 203:1144-5 N '65
- Application of penetration theory to gas absorption on a sieve tray. R. K. Smith and G. B. Wills. *bibliog diag Ind & Eng Chem Proc Design* 5:39-44 Ja '66
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- Radioisotope technique for the study of refractory/melt reactions. E. Snape and P. R. Beeley. *diag Inst Metals J* 94:258-61 '66
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- See also
Silica gel
Sound—Absorption

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- Absorption and secretion of some organic and inorganic constituents and the distribution of these constituents throughout the alimentary tract of young calves. M. G. Yang and J. W. Thomas. *J Nutrition* 87:444-68 *bibliog* (p457-8) D '65
- Absorption of amino acids from the small intestine of domestic fowl. I. Tasaki and N. Takahashi. *bibliog J Nutrition* 83:359-64 Ap '66
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- Dietary metal-complexing agents and zinc availability in the rat. D. Oberleas and others. *bibliog J Nutrition* 90:66-82 S '66
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- Effect of a low iron diet on iron absorption. B. Rush and others. *bibliog Am J Clinical Nutrition* 19:132-6 Ag '66
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- Effect of intestinal damage produced by eimeria necatrix infection in chicks upon absorption of orally administered zinc-65. D. E. Turk and J. E. Stephens. *bibliog J Nutrition* 88:261-6 Mr '66
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- In vivo intestinal absorption of L-alanine in irradiated rabbits. A. R. Mehran and R. Blais. *bibliog J Nutrition* 89:235-40 Je '66
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- Post-ruminal degradation and absorption of carbohydrate by the mature ruminant. P. L. Wright and others. *bibliog J Nutrition* 89:241-6 Je '66
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- ABSORPTION apparatus**
- Application ideas for absorption water chillers. R. L. Erickson. *II diag Plant Eng* 20:148-9 S '66
- Application of penetration theory to gas absorption on a sieve tray. R. K. Smith and G. B. Wills. *bibliog diag Ind & Eng Chem Proc Design* 5:39-44 Ja '66
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- Influence of axial dispersion on carbon dioxide absorption tower performance. M. I. Brittan and E. T. Woodburn. *bibliog diag AIChE J* 12:541-8 My '66
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- Effects of iron in ultraviolet absorbing green glass. R. C. Knupp and D. F. Berger. *Glass Ind* 47:262-64 My '66
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- See also
Red ray
Black body
Gamma rays—Absorption
Spectrophotometry

ABSORPTION spectra. See Spectrum—Absorption spectra

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ACACIA (gum). See Gum arabic

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ACCELERATION

C_p for accelerated slender bodies. J. R. Foote. *bibliog ASME Trans ser E* 33:1-6 Mr '66

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ACCELERATORS. See Vulcanization—Accelerators

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See also

Linear accelerators

Synchrotron

ACCELERATORS, Electron. See Electron accelerators

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 Airplanes, Military
 Bombs, Aerial
 Guns, Anti-aircraft
 Helicopters—Military use
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United States

See also

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also subdivision Air conditioning under

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Apartment houses

Auditoriums

Bank buildings

College buildings

Courthouses

Factories

Hospitals

Hotels

Insurance company buildings

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Lead alloys
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Magnesium alloys
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Nickel alloys
Niobium alloys
Niobium stannide
Palladium alloys
Permalloy
Platinum alloys
Platinum antimonide
Rhenium alloys
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ALUMINUM foil

Aluminum foil rolling mill in North Carolina. il Engineer 222:431-2 S 16 '66

Exploding foil tips off nuclear-shock secrets. il Machine Design 38:14 Je 23 '66

Foil firm thinks big; Republic foil inc. A. G. Rosenthal. il Mod Metals 22:41-2+ Je '66

Foil starts at continuous casting. T. H. Malim. il Iron Age 197:74-5 My 19 '66

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Big paint line helps custom extruder tap new markets, run at full capacity. F. L. Church. il Mod Metals 22:82+ Ap '66

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Diecast aluminum components improve electronic cabinetry. N. F. Wood. il Foundry 94:116-18+ Ja '66

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Draft for aluminum castings; reference book sheet. diags Am Mach 110:151 Je 20 '66

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High density aluminum die castings are pressure tight. il Materials in Design Eng 64:19-20 S '66

High-density diecastings now ready for the tough jobs. il Machine Design 38:25 S 15 '66

Improved high-strength aluminum casting alloys. A. P. Bates and others. il Metallurgia 73:101-10 Mr '66

Indy 500 engines depend on quality castings. N. F. Wood and W. D. Huskonen. il Foundry 94:262-2+ My '66

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Melting procedures for aluminum and magnesium alloys. W. A. Kirk. il diags Foundry 93:62-5 D '65

Metal selector; aluminum casting alloys. Steel 158:supS 17-19 O 24 '66

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Nature of aluminum hydroxide montmorillonite complexes. J. E. Brydson and H. Kodama. bibliog Am Mineralogist 51:875-89 My '66

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Diaspore**ALUMINUM industry and trade**

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Alcoa promotes alloys via airborne showcase. il Steel 158:45-6 Ja 31 '66

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- Extrusion market developments. *Light Metal Age* 23:13-15 D '65
- First half an aluminum record. *Chem & Eng N* 44:14 Ag 1 '66
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- World aluminum firms predict major growth. *Mod Metals* 21:92+ Ja '66

Statistics

- Bullish sheet mills predict for '67; sales of two million tons more gains in packaging further price firming. W. B. Griffin. *Mod Metals* 22:73-4+ S '66
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ALUMINUM paint. See Aluminum—Paint**ALUMINUM phosphide**

- Vapor growth of AlP single crystals. F. J. Reid and others. *diag Electrochem Soc J* 113:467-9 My '66

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- Buckling of aluminum columns, plates, and beams. J. W. Clark and R. L. Rolf. *bibliog il Am Soc C E Proc* 92 [ST 3 no 4838]:17-38 Je '66
- Operating nine million lb. plate stretcher. *il Light Metal Age* 24:13-14 F '66
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Albite
Analcite
Bentonite
Cordierite
Tourmaline

ALUMINUM sulfate

- Coagulation and reversal of charge of lyophobic colloids by hydrolyzed metal ions. E. Matijević and L. J. Stryker. *bibliog J Colloid & Interface Sci* 22:68-77 Jl '66

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ALUMINUM window frames. See Window frames, Aluminum**ALUMINUM wire. See Wire, Aluminum****ALUMINUM work**

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- Aluminum die forgings; reference book sheet. *Am Mach* 109:117 D '65
- Aluminum impact extrusions. F. J. Hall. *il diags Machine Design* 38:140-4 Ag 4 '66
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- Flying die speeds roll forming. G. DeGroat. *il diag Am Mach* 110:78-9 F 28 '66
- For strong joints, try bonding aluminum parts. F. E. Hall. *il Product Eng* 37:91-3 F 28 '66
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- How to fabricate aluminum sheet for building applications. *diags Mod Metals* 21:38+ Ap; 42+ S; 44+ D '65; 22:66+ Mr; 44+ My '66 (reprints \$1)
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- Keeping the snakeeyes rolling. G. DeGroat and J. Ranill. *il Am Mach* 110:108-9 Ag 1 '66
- King-size high energy rate forming machine. *il Light Metal Age* 24:22 Ag '66
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- Prosperity kick brightens extrusion game. W. B. Griffin. *Mod Metals* 22:48+ Je '66
- Simplified etch process to boost aluminum in building appliances, auto trim markets. *il diags Mod Metals* 22:62+ Mr '66
- Special units speed aluminum production. *il Light Metal Age* 24:25 F '66
- Vacation house sports walls of prefinished aluminum sandwich. *il Mod Metals* 21:78+ N '65

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Aluminum—Welding
Aluminum founding

ALUMINUM works

- Engineering control of industrial air pollution; state of the art. 1966. S. C. Rothman. *bibliog il diags Heating-Piping* 38:141-8 Mr '66
- Intalco smelter puts lid on air pollution. *il diag Steel* 159:42 S 5 '66

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- Aluminum section rolling machine. *il Engineer* 221:130 Ja 21 '66
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- Aluminum works modernisation. *il Engineer* 222:520-1 O 7 '66
- Automated slitting line increases distributor's productivity. *il Mod Metals* 22:84 My '66
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- Impalco re-equip aluminum plant. *il Engineering* 202:645 O 7 '66
- Packaged aluminum extrusion plant for Germany. *il Engineer* 220:887 N 26 '65
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- High pressure capillary thallium-amalgam are for use in ultraviolet. W. C. Worsham and others. *diag R Sci Instr* 37:1084-6 Ag '66
- Lithium amalgam-lithium chloride and thallium amalgam-thallous chloride electrodes in lithium chloride-dimethyl sulfoxide solutions. D. R. Cogley and J. N. Butler. *bibliog diags Electrochem Soc J* 113:1074-8 O '66
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- Powder shape determines ease of filling cavity. *il Steel* 158:106 My 2 '66
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- Simple procedure for measurement of Hg vapor pressure of amalgams. J. M. Margolis. *diags R Sci Instr* 37:895-6 J1 '66
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AMARYLLIDACEAE

- Mass spectrometry in structural and stereochemical problems; a study of the fragmentation of some amaryllidaceae alkaloids. A. M. Duffield and others. *bibliog Am Chem Soc J* 87:4902-12 N 5 '65

- Total synthesis of (+)-crinine. H. Muxfeldt and others. *Am Chem Soc J* 88:3670-1 Ag 5 '66

- AMATEUR** moving pictures. See Moving pictures, Amateur

AMATEUR radio emergency corps

- How to join the AREC. G. Hart. *QST* 50:63-5 J1 '66

- AMATEUR** radio operators. See Radio operators, Amateur

AMBERGRIS. See Perfumery**AMBULANCES**

- Ambulances and emergency medical care. H. W. Mitchell. *bibliog Am J Pub Health* 55:1717-24 N '65

- Equipment and training for ambulance crews. *il Safety Maint* 132:40-4 S '66

- Handling of emergency cases. R. H. Kennedy. *Archives Environmental Health* 13:511-15 O '66

- Utilization of ambulance services in a rural community. J. A. Waller and others. *bibliog map Am J Pub Health* 56:13-20 Mr '66

- AMERICAN architecture.** See Architecture, American

AMERICAN association for contamination control

- Annual technical meeting and exhibit, Houston, Tex. March 29-April 1; abstracts of papers. *Heating-Piping* 38:122-3 My '66

AMERICAN association of cost engineers

- Annual meeting, 10th, Philadelphia, June 20-22; abstracts of papers. *Heating-Piping* 38:137-8 Ag '66

AMERICAN association of petroleum geologists

- Annual meeting, 51st, St Louis, April 25-28; with program and abstracts of papers. *Am Assn Pet Geologists Bul* 50:596-642, 1796-830, Mr, Ag '66

- History of the American association of petroleum geologists; first fifty years. H. T. Morley. *il Am Assn Pet Geologists Bul* 50:672-820 Ap '66

- Membership directory. *Am Assn Pet Geologists Bul* 50:1-285 pt 2 Mr '66

- Pacific section annual meeting, 41st, Long Beach, Calif. March 24-26; with abstracts of papers. *Am Assn Pet Geologists Bul* 50:642-52 Mr '66

- Rocky Mountain section, 16th annual meeting, Denver, Oct. 23-27. *Oil & Gas J* 64:136-9 O 17 '66

- Rocky Mountain section 16th annual meeting, Denver, Colo. Oct. 23-27; program and abstracts of papers. *Am Assn Pet Geologists Bul* 50:2027-39 S '66

AMERICAN association of physics teachers

- Annual meeting, 35th, New York, Jan. 26-28; with abstracts of papers. *Am J Phys* 34:718-33 Ag '66

- Colorado-Wyoming section meeting, April 22-23; abstracts of papers. *Am J Phys* 34:995-9 O '66

- Joint annual meeting with American physical society, New York, Jan. 26-29; preview and list of exhibitors. *Phys Today* 19:79-92 Ja '66

- Proceedings. *Am J Phys* 34:634-8 J1 '66

- Summer meeting, Knoxville, Tenn. June 17-19; with abstracts of papers. *Am J Phys* 34:180-8 F '66

AMERICAN association of railway surgeons

- Annual meeting, 78th, Chicago, April 21-23. *Ind Med* 35:244-7, 453-6 Ap, Je '66

AMERICAN association of state highway officials

- Annual meeting, New York, Oct. 4-7. *Roads & Sts* 108:58-9 N '65

AMERICAN association of textile chemists and colorists

- Council highlights, 241st meeting, Chicago, Oct. 13. *Am Dyestuff Rep* 55:25 Ja 3 '66

- Council meeting, 242d, New York, Nov. 19; highlights. *Am Dyestuff Rep* 55:175-7 F 28 '66

- Council meeting, 243d, New York, Feb. 18; highlights. *Am Dyestuff Rep* 55:426 My 23 '66

- National convention, Chicago, Oct. 13-15; abstracts of papers. *Mod Textiles Mag* 46:41-3 D '65; 47:49-50 Ja '66; *Textile World* 115:103-4 D '65

- National convention, Chicago, Oct. 13-15; with abstracts of papers. *Textile Ind* 129:111-12+ D '65

- National technical conference, Atlantic City, N.J. Sept. 29-Oct. 1; program. *Mod Textiles Mag* 47:37-8+ S '66

- National technical conference, Atlantic City, N.J. Sept. 29-Oct. 1; with program, abstracts of papers and list of exhibitors. *il Am Dyestuff Rep* 55:716-66 S 12 '66

- President's address. F. Fortess. *Am Dyestuff Rep* 54:123-32 D 20 '65

- Role of the national headquarters of AATCC. G. P. Paine. *il Am Dyestuff Rep* 55:542-4 J1 4 '66

Committee on research

- Minutes of 218th meeting. *Am Dyestuff Rep* 55:123-32 F 14 '66

- Minutes of the 219th meeting. *Am Dyestuff Rep* 55:463-9 Je 6 '66

AMERICAN ceramic society

- Annual meeting, 68th, Washington, May 7-12; with preview, honor list and exhibit in print of materials and equipment. *Cer Ind* 86:68-100 Ap; 77-80 Je '66

- Annual meeting, 68th, Washington, May 7-12; with program and floor plans. *Am Cer Soc Bul* 45:341-62 Ap '66

- Membership roster. *Am Cer Soc Bul* 45:855-87+ O '66

AMERICAN ceramic society—Continued

Basic science division

Annual meeting, Washington, May 9-11; program and abstracts of papers. *Am Cer Soc Bul* 45:363+ Ap '66
 Fall meeting, University Park, Pa. Oct. 9-11; program and abstracts of papers. *Am Cer Soc Bul* 45:803-5+ S '66

Ceramic-metal systems division

Annual meeting, Washington, May 9-11; program and abstracts of papers. *Am Cer Soc Bul* 45:387+ Ap '66
 Fall meeting, Oak Brook, Ill. Sept. 18-21; program and abstracts of papers. *Am Cer Soc Bul* 45:745-8 Ag '66

Design division

Annual meeting, Washington, May 9-11; program. *Am Cer Soc Bul* 45:397+ Ap '66

Electronics division

Annual meeting, Washington, May 9-11; program and abstracts of papers. *Am Cer Soc Bul* 45:401+ Ap '66
 Fall meeting, Des Plaines, Ill. Sept. 25-28; program and abstracts of papers. *Am Cer Soc Bul* 45:752-6+ Ag '66

Glass division

Annual meeting, Washington, May 9-11; program and abstracts of papers. *Am Cer Soc Bul* 45:417+ Ap '66
 Fall meeting, Bedford, Pa. Oct. 13-16; program and abstracts of papers. *Am Cer Soc Bul* 44:713-16 S '65; *Glass Ind* 46:719-21+ D '65
 Fall meeting, Bedford, Pa. Oct. 12-14; program and abstracts of papers. *Am Cer Soc Bul* 45:811-13+ S '66

Materials and equipment division

Annual meeting, Washington, May 10-11; program and abstracts of papers. *Am Cer Soc Bul* 45:437+ Ap '66
 Fall meeting, Bedford, Pa. Sept. 28-Oct. 1; program and abstracts of papers. *Am Cer Soc Bul* 45:795-7 S '66

Nuclear division

Fall meeting and Pacific Coast regional meeting, Portland, Ore. Oct. 26-28; programs and abstracts of papers. *Am Cer Soc Bul* 45:819-29 S '66

Refractories division

Annual meeting, Washington, May 9-11; program and abstracts of papers. *Am Cer Soc Bul* 45:441+ Ap '66
 Fall meeting, Bedford, Pa. Oct. 6-8; program and abstracts of papers. *Am Cer Soc Bul* 45:799-801 S '66

Structural clay products division

Annual meeting, Washington, May 9-11; program and abstracts of papers. *Am Cer Soc Bul* 45:455+ Ap '66
 Fall meeting, Canton, Ohio, Sept. 21-24; program and abstracts of papers. *Am Cer Soc Bul* 45:749-51 Ag '66

Whiteware division

Annual meeting, Washington, May 9-11; program and abstracts of papers. *Am Cer Soc Bul* 45:461+ Ap '66
 Fall meeting, Bedford, Pa. Sept. 28-Oct. 1; program and abstracts of papers. *Am Cer Soc Bul* 45:795-7 S '66

AMERICAN chemical society

Alden Emery retires after 30 years of service. *Chem & Eng N* 44:100-2 Je 13 '66
 Amendment of constitution and bylaws. *Chem & Eng N* 44:42-9 Ag 22 '66
 ACS adopts new clinical lab principles. *Chem & Eng N* 44:88+ O 17 '66
 ACS names 31 to be honored for outstanding work. *Chem & Eng N* 44:92-3 S 19 '66
 ACS opens new regional clearing house. *Il Chem & Eng N* 44:50-1 Ja 3 '66
 Annual report, 1965. *Chem & Eng N* 44:sup 1A-23A Ap 4 '66
 Board of directors minutes and reports of committees. *Chem & Eng N* 43:74-91 N 8 '65; 44:52-4+ Ag 1 '66
 Committee on professional training for 1965; progress report. *Chem & Eng N* 44:78-83 Mr 7 '66
 Great Lakes regional meeting, Chicago, June 16-17; program. *Chem & Eng N* 44:70+ My 30 '66
 Journal of chemical documentation issue type-set with aid of computer. *Il Chem & Eng N* 44:58-60 Mr 14 '66

Middle Atlantic regional meeting, Philadelphia, Feb. 3-4; program. *Chem & Eng N* 43:37-41 D 27 '65
 Midwest regional meeting, Lawrence, Kan. Oct. 27-28; program. *Chem & Eng N* 44:74+ O 3 '66
 National meeting, 151st, Pittsburgh, March 22-31; program, board of directors minutes and reports of committees. *Chem & Eng N* 44:74-112 F 14; 62-83 My 23 '66
 National meeting, 152d and triennial Chemical exposition U.S.A., New York, Sept. 11-16; with program, list of exhibitors and floor plans. *Chem & Eng N* 44:48-134 Ag 8 '66
 Officers, directors, councilors, and committees. *Chem & Eng N* 44:56-64 F 14 '66
 Officers of local sections and divisions and chapters of student affiliates. *Chem & Eng N* 44:65-6+ Mr 21 '66
 Projected divisional programs. *Chem & Eng N* 43:94-100 D 13 '65
 Reports from the board of directors meeting and reports of committees. *Chem & Eng N* 44:62-75 Ja 24 '66
 Sections cited for 1965 achievements. *Chem & Eng N* 44:82+ O 10 '66
 Society honors 50-year members. *Chem & Eng N* 44:78+ Ap 4 '66
 Southeastern-Southwestern regional meeting, Memphis, Tenn. Dec. 2-4; program. *Chem & Eng N* 43:92+ N 8 '65
 Winter meeting, Phoenix, Ariz. Jan. 16-21; program. *Chem & Eng N* 43:74-92 D 13 '65

Chemical abstracts service

Chemical abstracts service's computer search system nears operational status. *Il Chem & Eng N* 43:92+ N 8 '65
 Chemical literature expands. *Chem & Eng N* 44:84-6+ Je 6 '66

Division of rubber chemistry

Best paper committee: past, present, future. *Rubber Chem & Tech* 39:sup cxviii-cxxix S '66
 Fall meeting, New York, Sept. 14-16; program and abstracts of papers. *Rubber Age* 98:65-72 Jl '66
 Fall meeting, Philadelphia, Oct. 20-22; program and abstracts of papers. *Rubber Age* 97:70-7 Ag; 112-14 N '65; *Rubber World* 182:51-6 S '65
 Meeting, San Francisco, May 2-6; with program and abstracts of papers. *Rubber Age* 98:81-92 Mr '66; *Rubber World* 153:79-87 Mr '66
 Rubber chemists recording history. *Chem & Eng N* 44:70 F 21 '66
 Spring meeting, 1966, San Francisco. *Rubber Chem & Tech* 39:sup lxx-xxii Je '66
 AMERICAN concrete institute
 ACI awards; eleven awardees cited at 62d convention. *Am Concrete Inst J* 63:sup25+ Ap '66
 ACI in the service of mankind. A. A. Bates. *Am Concrete Inst J* 63:521-6 My '66
 ACI officers for 1966. *Am Concrete Inst J* 63:sup 13+ Ap '66
 ACI Whitney award presented to University of Illinois. *Am Concrete Inst J* 63:sup3-5+ Je '66
 Annual convention, 62d, Philadelphia, March 5-11; with program, abstracts of papers and list of exhibitors. *Am Concrete Inst J* 63:sup3+ F; sup27+ My '66
 Annual report, 1965. *Am Concrete Inst J* 63:sup 1-3+ Ap '66
 Fall meeting, 18th, Cleveland, Nov. 2-5; with abstracts of papers. *Am Concrete Inst J* 63:sup 13+ Ja '66
 Fall meeting, New Orleans, Oct. 24-28; with program. *Am Concrete Inst J* 63:sup2-3+ O '66
 Long-range activity planning. A. R. Anderson. *Am Concrete Inst J* 63:sup5-8 Ja '66

AMERICAN electroplaters society

Annual convention, 53d, Miami Beach, June 19-23; with program, abstracts of papers and floor plans. *Plating* 53:623-32, 1013-22 My, Ag '66; *Metal Finishing* 64:79-92 Je '66
 Annual report. *Plating* 53:633-46 My '66
 Constitution and bylaws. *Plating* 53:506-10 Ap '66
 Financial report for the fiscal year July 1, 1965-June 30, 1966. *Plating* 53:1246-9 O '66
 Quarterly research report. M. M. Beckwith. *Plating* 53:1011-12 Ag '66
 Reports of 1965-66 board and committee chairmen and liaison representatives to other societies. *Plating* 53:800-3 Je '66
 Research activities. W. Blum. *Plating* 53:341-53 Mr '66
 Research report, July 1 to December 31, 1965. M. M. Beckwith. *Plating* 53:354-5 Mr '66

AMERICAN foundrymens society

Castings congress and exposition, Cleveland, May 9-13, with program, list of exhibitors and abstracts of papers. Foundry 94:170-87 My; 66-75+ Je; 104-5, 157+ J1 '66

AMERICAN gas association

Annual general management section conference, 12th, April 4-6, Washington. Am Gas Assn Mo 48:32-4 My '66

Annual meeting, 47th, Bal Harbour, Fla.; with texts of papers and list of officers and directors. Am Gas Assn Mo 47:12-14+ N '65

Annual meeting and exhibit, 48th, Atlantic City, N.J., Oct. 2-5; preview. Am Gas Assn Mo 48:2-11 J1-AF '66; Gas 42:96-7 O '66

Annual sales executives conference, 2d, Chicago, Aug. 31-Sept. 1. Am Gas Assn Mo 48:28-31 O '66

Industrial-commercial gas sales conference, Houston, Texas, April 18-20; with program. Am Gas Assn Mo 48:34 Mr; 33-4 Je '66

Operating section distribution conference, Los Angeles, March 28-31. Am Gas Assn Mo 48:36-9 My '66

Operating sections final production conference, Baltimore, May 23-24. Am Gas Assn Mo 48:34-5 S '66

Purchasing and stores committee national conference, 1st, St Louis, March 9-11. Am Gas Assn Mo 48:43-4 Ap '66

Target for 1966. R. J. Rutherford. Am Gas Assn Mo 47:2-4 D '65

AMERICAN institute of aeronautics and astronautics

Aerospace sciences meeting, 3d, New York, Jan. 24-26. Astronautics & Aeronautics 4: 96-7 Mr; 80+ Je '66

AIAA third-year review. R. E. Horner. Astronautics & Aeronautics 4:84-5+ Mr '66
Who's who in technical committees. Astronautics & Aeronautics 4:118-24 My '66

AMERICAN institute of architects

AIA/AMA; or, blood-letting as practiced by the 20th century architect. Il Prog Arch 47:166-9 F '66

Annual convention, 98th, Denver, June 26-July 1. Arch Rec 140:35-6+ Ag '66; Eng N 177:69-70 J1 7 '66; Prog Arch 47:61+ Ag '66

AMERICAN Institute of chemical engineers

Annual meeting, 59th, Detroit, Dec. 4-8; with program. Chem Eng Prog 62:119-20+ O '66

National meeting, 58th, Dallas, Feb. 7-8; program. Chem Eng Prog 61:95-100 D '65

National meeting, 59th, Columbus, Ohio, May 15-19; with program. Chem Eng Prog 62: 114+ Mr '66

National meeting, 60th, Atlantic City, N.J., Sept. 18-21; with program. Chem Eng Prog 62:124-30 J1 '66

What should the institute do about pensions? R. I. Bergman. Chem Eng Prog 62:28-31 S '66

What's happening locally. H. C. Thorne, jr. Chem Eng Prog 62:50-7 F '66

AMERICAN institute of mining, metallurgical and petroleum engineers

AIME officers, 1967. Min Eng 18:194-194F J1 '66

Annual fall meeting, 41st, Dallas, Oct. 2-5; with program and abstracts of papers. J Pet Tech 18:1085-91 S '66

Annual meeting, 95th, New York, February 27-March 3; program. J Pet Tech 18:58-9+ Ja '66

Annual report, 1965. Min Eng 18:77-84 Mr '66

Arizona's annual subsection meeting. Eng & Min J 167:96-7 Ja '66

Meeting, New York, February 27-March 3; program and abstracts of papers. Min Eng 17:35-50 D '65

Society of mining engineers

1966 membership directory. Min Eng 18:215+ J1 '66

Society of mining engineers and Rock Mountain miners conference coal sessions, Phoenix, Ariz. Oct. 7-9; abstracts of papers. Coal Age 70:106-9 N '65

Coal division

Meeting, New York, February 28-March 1; abstracts of papers. Coal Age 71:69-72 Ap '66

Society of petroleum engineers

Annual California regional meeting, 36th,akersfield, Nov. 4-5; program. J Pet Tech 17:1100-1 O '65

Job ahead; president's message. H. M. Krause, jr. J Pet Tech 18:138+ F '66

Value of AIME to SPE. J. C. Calhoun, jr. J Pet Tech 17:119-7 O '65

AMERICAN institute of nutrition

Annual meeting, 30th, Atlantic City, N.J., April 12-16; proceedings. J Nutrition 90: 101-14 S '66

AMERICAN Institute of physics

Institute in 1965; a report on the annual report. Phys Today 19:45-8+ My '66

AMERICAN institute of plant engineers

Europe in '66 tour. H. E. B. Anderson. Il map Plant Eng 20:170+ O '66 (to be cont)

AMERICAN iron and steel institute

General meeting, New York, May 25-26; address of the chairman. L. B. Worthington. Iron & Steel Eng 43:113-16 J1 '66

AMERICAN medical association

ALA/AMA; or, blood-letting as practiced by the 20th-century architect. Il Prog Arch 47:166-9 F '66

AMERICAN mining congress

Annual membership meeting, Washington, Jan. 10-11. Min Cong J 52:30-1+ F '66

Coal convention, Pittsburgh, May 8-11; with abstracts of papers. Coal Age 71:102-8 Je '66

Min Cong J 52:40-5 Ap; 56-67 Je '66

Convention and equipment show, Las Vegas. Il Eng & Min J 166:97-101+ N '65

Convention and show, Las Vegas, Oct. 11-14; with abstracts of papers. Pit & Quarry 58: 122-4+ D '65

Convention, Salt Lake City; with abstracts of papers. Eng & Min J 167:99-102 O '66

Metal mining and industrial minerals convention, Salt Lake City, Sept. 11-14; with program. Min Cong J 55:37-48 Ag '66

Mining show convention and exposition, Las Vegas. Min Cong J 51:58-84 N '65

AMERICAN museum of photography

American museum of photography twenty-fifth anniversary celebration is occasion for opening of photography Hall of fame. Il Ind Phot 15:24+ Ja '66

AMERICAN nuclear society

Report on nuclear power sessions in APC and ANS. bibliog Power Eng 70:70-2 S '66

Winter meeting, Pittsburgh, Pa. Oct. 31-Nov. 2; program preview. Nucleonics 24:66B-66D O '66

AMERICAN oil chemists society

Advancements create new challenge; report of the president. 1965-66. Am Oil Chem Soc J 43:sup213A My '66

Annual meeting, 57th, Los Angeles, April 24-27; with program and abstracts of papers. Am Oil Chem Soc J 43:sup86A+, 248A+ Mr, Je '66

Annual report of the Smalley committee, 48th. Am Oil Chem Soc J 43:sup287A+ Je '66

Detergent session; annual meeting, 57th, Los Angeles, April 24-27; abstracts of papers. Soap & Chem Spec 42:68+ Ap '66

East Lansing short course, Aug. 29-Sept. 1; abstracts of papers. Am Oil Chem Soc J 43:sup306A+ J1 '66

Governing board reports to the society. Am Oil Chem Soc J 43:sup6A+, sup380A+ Ja, S '66

Report of the instrumental techniques committee. Am Oil Chem Soc J 43:sup 10A+ Ja '66

Report of the instrumental techniques committee. Am Oil Chem Soc J 43:sup 10A+ Ja '66

API takes major role in statistics. Oil & Gas J 64:34 My 30 '66

Annual meeting, 45th, Chicago. Oil and Gas J 63:67-9 N 8; 107-24 N 15 '65

AMERICAN physical society

Joint annual meeting with American association of physics teachers, New York, Jan. 26-29; preview and list of exhibitors. Phys Today 19:79-92 Ja '66

Southwestern section meeting, 32d, Nov. 1-3; with abstracts of papers. Am J Phys 34: 282-5 Mr '66

AMERICAN power conference

Annual meeting, 28th, Chicago, April 26-28; abstracts of papers. Combustion 37:24-9+ Je; 38:13, 38-41 J1; 40-50 Ag '66

Annual meeting, 28th, Chicago, April 26-28; program. Power Eng 70:48-9 Mr '66; Combustion 37:46-51 Ap '66

Meeting, Chicago, April 26-28; abstracts of papers. Mech Eng 88:98-9 J1 '66

Meeting, 1966; abstracts of papers on station design, practice. Power Eng 70:49-51 J1 '66

Report on nuclear power sessions in APC and ANS. bibliog Power Eng 70:70-2 S '66

AMERICAN public health association
Annual meeting, 93d, Chicago; policy statements. Am J Pub Health 55:2011-23 D '65

Annual meeting, 93d, Chicago; resolutions adopted. Am J Pub Health 55:2002-10 D '65

AMERICAN public health association—Cont.
 Annual meeting, 94th, San Francisco, Oct. 31-Nov. 4; program and list of exhibitors. *Am J Pub Health* 56:1326-410 Ag '66
 Committee on affiliated associations and regional branches, 1964-1965. *Am J Pub Health* 55:315-18 F '66
 Committee on evaluation and standards 1964-1965. *Am J Pub Health* 56:319-21 F '66
 Committee on professional education; report of the chairman, 1965. *Am J Pub Health* 55:521-4 Mr '66
 Committee on public policy and legislation; report to the governing council, 1964-1965. *Am J Pub Health* 56:525-8 Mr '66
 Committees and association representatives 1965-1966. *Am J Pub Health* 56:331-57 F '66
 Fellowship in the American public health association. *Am J Pub Health* 56:328-30 F '66
 Report of the chairman of the executive board to the governing council, 1964-1965. J. D. Porterfield. *Am J Pub Health* 56:106-12 Ja '66
 Technical development board; report of the chairman, 1964-1965. M. H. Merrill. *Am J Pub Health* 56:113-16 Ja '66
 Why active membership is important to sanitarians, engineers, and environmental health scientists. C. L. Senn. *Am J Pub Health* 55:1830-1 N '65

AMERICAN public power association
 Annual meeting, 23d, Boston; abstracts of papers. *Elec World* 165:17-18 My 23 '66; *Power Eng* 70:54-5 Jl '66

AMERICAN radio relay league
 As the ham sees ARRL. D. Waters. *QST* 50:46-9 My '66
 Simulated emergency test, 1965; survey and analysis of AREC and NTS participation. G. Hart and P. Chamalian. *il QST* 50:25-33 Mr '66

AMERICAN road builders association
 Annual meeting, 64th, Denver. *Eng N* 176:14 Mr 3 '66; *Civil Eng* 36:78 Ap '66

AMERICAN society for clinical nutrition
 Annual meeting, 6th, Atlantic City, April 30; program and abstracts of papers. *Am J Clinical Nutrition* 18:301-16 Ap '66
 Presidential address. C. S. Davidson. *Am J Clinical Nutrition* 18:469-70 Je '66

AMERICAN society for engineering education
 Annual meeting, 74th, Pullman, Wash. June 20-24. *Civil Eng* 36:79 Ag '66; *Mech Eng* 88:69-70 Ag '66
 What is American society for engineering education? M. A. Williamson. *Res/Develop* 17:40-1 Mr '66

AMERICAN society for quality control
 ASQC history, 1946-1966. *Ind Quality Control* 22:566-85 My '66
 Annual technical conference and exhibit, 20th, New York, June 1-3; program and list of exhibitors. *Ind Quality Control* 22:597-9+ My '66
 International standards and ASQC. *Ind Quality Control* 23:160-5 O '66
 1966-67 organization manual. *Ind Quality Control* 23:127-34 S '66

AMERICAN society for testing and materials
 Annual meeting and 17th biennial materials testing exhibit, Atlantic City, N.J. June 27-July 1; program and list of exhibitors. *Materials Res & Stand* 6:245-50+, 312-13 My-Je '66
 Annual meeting, 69th, Atlantic City, N.J. June 26-July 1. *Foundry* 94:192+ S '66; *Pit & Quarry* 59:144-6 S '66
 Annual meeting, 69th, Atlantic City, N.J. June 26-July 1; honorary memberships, honors and awards and abstracts of papers. *Materials Res & Stand* 6:450-81 S '66
 Board of directors meetings; highlights. *Materials Res & Stand* 6:48-51, 523-4 Ja, O '66
 Committee D-11 on rubber and rubberlike materials meeting, Atlantic City, June 26-July 1. *Rubber Age* 98:91-3 Ag '66
 Consensus. R. F. Leggett. *Materials Res & Stand* 6:193-5 F '66
 Highlights of 1965 operations. *Materials Res & Stand* 6:99-114 F '66
 Meeting of the ASTM committee B-8, Washington, Feb. 2-3. *Plating* 53:522-3 Ap '66
 New ASTM publications. Published in monthly numbers of *Materials research & standards*
 Pacific area national meeting, 5th, Seattle, Wash. Oct. 31-Nov. 5; with abstracts of papers. *Materials Res & Stand* 6:36-42+ Ja '66
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AMERICAN society of civil engineers
 Annual meeting and transportation engineering conference, Philadelphia, Oct. 17-21; program. *Civil Eng* 36:65-73 Ag '66
 Environmental engineering conference, Kansas City, Oct. 18-22; with abstracts of papers. *Civil Eng* 35:56-63 N '65
 Hydraulics division annual conference, Madison, Wis. Aug. 24-26; program. *Civil Eng* 36:30-2 Je '66
 Power division specialty conference, Denver, Aug. 18-20; program and texts of papers. *Am Soc C E Proc* 92 [PO 21:55-180 Ap '66
 State of the Society. W. J. Hedley. *Civil Eng* 36:39-41 Je '66
 Structural engineering conference, Miami Beach, Jan. 31-Feb. 4; program. *Civil Eng* 35:39-99 N '65
 Water resources engineering conference, Denver, May 16-20; program. *Civil Eng* 36:75-85 Mr '66

AMERICAN society of heating, refrigerating and air-conditioning engineers
 ASHRAE officers, directors, committeemen. *ASHRAE J* 8:96-7 My '66
 Annual meeting, 73d, Toronto, June 27-29; program and abstracts of papers. *ASHRAE J* 8:39-53 Je '66
 Our by-laws: the members' safeguard. *ASHRAE J* 8:56-6+ O '66
 Semiannual meeting, Houston, Tex. Jan. 24-27; abstracts of papers. *Heating-Piping* 38:110-13 Mr '66
 Semiannual meeting, Houston, Tex. Jan. 24-27; with program and abstracts of papers. *ASHRAE J* 8:69-95 Ja; 48-67 Mr '66
 Who is responsible to whom; ASHRAE organization. F. N. Vinther. *ASHRAE J* 8:68-9 Mr '66

AMERICAN society of lubrication engineers
 Annual meeting and lubrication show, Pittsburgh, Pa. May 2-5; program. *Lub Eng* 22:89-92 Mr '66

AMERICAN society of mechanical engineers
 Annual meeting, Chicago, Nov. 7-11; abstracts of papers. *Combustion* 37:27-36 Ja '66
 Council report to the membership, 1965-66. *Mech Eng* 88:123-141 S '66
 Inside ASME. Published in monthly numbers of *Mechanical engineering*
 Membership development committee, drive in high gear, initiation fees waived. map *Mech Eng* 88:92-4 O '66
 1967-1968 officers elected. *Mech Eng* 88:114-15 N '66
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 Proposed ASME consulting engineers committee. *Mech Eng* 88:75 Ag '66
 Regional student conference, 1966; list of reports and prizes. *Mech Eng* 88:96-7 O '66
 What ASME does in code and standards work. J. D. Wilding. *il Mag of Stand* 37:163-6 Je '66
 Winter annual meeting; abstracts of papers. *Power Eng* 70:64-5 F '66
 Winter annual meeting and energy systems exposition, New York, Nov. 27-Dec. 1. *Mech Eng* 88:102-4 S; 82-6 O; 102-3 N '66
 Winter annual meeting, 86th, Chicago, Nov. 7-11; with list of technical papers available. *Mech Eng* 88:94-110 Ja; 124 F '66
 Women's auxiliary announces scholarship awards to mechanical engineering students. *Mech Eng* 87:100-1 D '65

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 National power conference

Gas turbine power division
 Annual gas turbine conference and products show, 11th, Zurich, March 13-17; with abstracts of papers. *il diags Engineering* 201:551-8 Mr 25 '66
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AMERICAN society of naval engineers
 ASNE day 1966. *Naval Eng J* 78:371-84 Je '66
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AMERICAN society of perfumers
 Annual symposium, 12th, New York, April 20; abstracts of papers. *Am Perfumer* 81:57-78 Je '66; *Drug & Cosmetic Ind* 98:45+ My '66

AMERICAN society of tool and manufacturing engineers
 Engineering conference and tool exposition, Detroit, April 18-22; abstracts of papers and products on display. *Steel* 158:105-6, 145-6+ Ap 18 '66

- AMERICAN society of tool and manufacturing engineers—Continued**
 Engineering conference and tool exposition, Detroit, April 18-22; program and products on display, *Iron Age* 197:83+ Ap 7 '66
 Engineering conference and tool exposition, Detroit, April 18-22; with program, abstracts of papers, list of exhibitors, floor plan and products on display, *Tool & Manuf Eng* 56:101-46 Ap '66
 Engineering conference and tool show, Detroit, April 18-22; with program, floor plan, list of exhibitors and products on display, *Am Mach* 110:155-64+ Ap 11 '66
 Standards in a changing society, W. J. Banks, *Il Mag of Stand* 37:35-7 F '66
- AMERICAN standards association**
 Annual meeting, New York, Dec. 9, *Mag of Stand* 37:8-9 Ja '66
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 Water heater protection; energy cut-off decision delayed, *Dom Eng* 207:58 Ja '66
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 AWWA directory, 1965; reference edition, *Am Water Works Assn J* 57:1-213 pt 2 N '65
 Annual conference, 85th, Portland, Ore. June 27-July 2; with list of exhibitors, awards, and papers, *Am Water Works Assn J* 57:1586-603 D '65
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 Dynamic student activities program, J. T. O'Connor, *Water & Sewage Works* 113:178-82 My '66
 Illinois section annual meeting, Chicago, March 8-11, *Water & Sewage Works* 113:150-1 Ap '66
 Indiana section annual meeting, 58th, Indianapolis, Feb. 16-18, *Water & Sewage Works* 113:149-50 Ap '66
- AMERICAN welding society**
 Annual meeting and welding show, Cleveland, April 18-22; program, *Iron Age* 197:104-6 Mr 31 '66
 Annual meeting, 47th, and ASME metals engineering conference, Cleveland, April 18-22; with program and list of exhibitors, *Welding J* 45:305-10, 313-17, 514+ Ap, Je '66
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 National fall meeting, Birmingham, Oct. 4-7; with presidential address, *Welding J* 44:414 N '65
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 President's address at 47th annual meeting, Cleveland, J. Bland, *Welding J* 45:428-31 My '66

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- Emission spectrographic determination of plutonium, thorium, and rare earths in americium following anion exchange separation, H. N. Barton, *bibliog Anal Chem* 38:1077-8 J '66

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- Three-pronged attack spearheads city's snow fight, R. E. Speer, Jr., *Il Pub Works* 96:103-5 D '65

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- Bathhouses
- Beach architecture
- Building materials
- Buildings
- Cathedrals
- Ceilings
- Church architecture
- Clinics
- Clubhouses
- College architecture
- Community centers
- Concrete construction
- Convents
- Department stores
- Embassy buildings
- Exhibition buildings
- Factories
- Greenhouses
- Hillside architecture
- Interior decoration
- Library buildings
- Medical buildings
- Modular coordination (architecture)
- Monuments
- Moving picture theaters
- Municipal centers
- Mural painting and decoration
- Museums
- Music halls
- Naval architecture
- Nursing homes
- Office buildings
- Partitions
- Pavilions
- Planetariums
- Police stations
- Recreation buildings
- Remodeling (architecture)
- Sculpture, Architectural
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- Stadiums
- Store buildings
- Studios
- Telephone company buildings
- Tennis courts, indoor
- Theaters
- Zoological gardens—Buildings
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- Atlanta
- Barcelona
- Berlin
- Boston
- Chicago
- Columbus, Indiana
- Dallas
- Denver
- Detroit
- Durham, North Carolina
- Hartford, Connecticut
- Helsinki
- Honolulu
- Indianapolis
- Johannesburg
- Liverpool, England
- London
- Los Angeles
- Madrid
- Memphis, Tennessee
- Minneapolis
- Montreal
- New Haven, Connecticut
- New York (city)
- Norfolk, Virginia
- Paris
- Philadelphia
- Pittsburgh
- Portland, Oregon
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- Great Britain**
British coziness vs. New England austerity. il diags Prog Arch 46:158-62 N '65
- Illinois**
Simmen residence, Lake Forest, Ill. il plans Arch Rec 139:102-5 Mid-My '66
- Iowa**
Schramm residence, Burlington, Iowa. il plan Arch Rec 139:64-7 Mid-My '66
- Long Island, New York**
Bunshaft residence, East Hampton, N.Y. il plan Arch Rec 139:40-5 Mid-My '66
Geometry by the sea. il plans Arch Forum 124:52-5 Ap '66
Saltbox split in two. il diag Arch Forum 123:58-61 S '65

ARCHITECTURE—Continued

Maryland

- Development house, Bethesda, Md. 11 plans Arch Rec 139:50-1 Mid-M'y '66
Neuman residence, Baltimore County, Md. 11 plan Arch Rec 139:84-7 Mid-M'y '66

Massachusetts

- British coziness vs. New England austerity. 11 diag. Prox Arch 46:153-62 N '65
Lyman residence, Dover, Mass. 11 plan diag. Arch Rec 139:30-5 Mid-M'y '66
McNulty house; a space wrapped in concrete. 11 plans Arch Forum 123:30-5 N '65
Private residence, Martha's Vineyard Island, Mass. 11 plan Arch Rec 139:46-9 Mid-M'y '66
Snail house in the Berkshires. 11 plans Arch Forum 125:84-7 J1 '66
Three Vineyard boxes; Martha's Vineyard, Mass. 11 plans diag. Prog Arch 46:152-7 N '65

Minnesota

- Pillsbury residence, Wayzata, Minn. 11 plan diag. Arch Rec 139:68-73 Mid-M'y '66

Netherlands

- Breuer houses; Van der Wal house, Amsterdam. 11 plans diag. Arch Rec 140:130-1 N '66

New Jersey

- Axelrod residence, New Jersey. 11 plan Arch Rec 139:60-3 Mid-M'y '66

New York (state)

- Volumetric vacation; Lakeside house, Adirondacks, N.Y. 11 plans diag. Prog Arch 46:134-7 N '65

Norway

- Norwegian terrace housing; high-density on an unbuildable hillside. 11 plans Arch Rec 139:162-3 Ja '66

Pennsylvania

- Four-in-hand-housing. 11 plans Prog Arch 47:173 J1 '66

Switzerland

- Breuer houses; Koefler house, Moscia, Tessin. 11 plans diag. Arch Rec 140:132-3 N '66
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Texas

- Bassett residence, Nassau Bay, Tex. 11 plan diag. Arch Rec 139:52-5 Mid-M'y '66
Cloistered house in Texas. 11 plan diag. Arch Rec 140:191-4 S '66

Vermont

- Architecture swings like a pendulum do. 11 plans diag. Prog Arch 47:150-7 My '66

Virginia

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Geology—Arctic regions
Ice—Arctic regions
Petroleum—Arctic regions

AREA of surfaces. See Surfaces—Areas and volumes

ARENAS. See Stadiums

ARGENTINA

See also subdivision Argentina under special subjects, e.g.

Architecture

- Architecture, Domestic
Electric plants (central stations)
Gas, Natural—Pipe lines
Mines and mineral resources
Petroleum industry and trade

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See also
Algorithm
Multiplication
Numeration

ARIZONA

See also subdivision Arizona under special subjects, e.g.
Architecture, Domestic
Copper mines and mining
Electric utilities
Geology
Irrigation
Mines and mineral resources
Paleoclimatology
Physical geography

ARKANSAS

See also subdivision Arkansas under special subjects, e.g.
Architecture, Domestic
Atomic power plants
Gas, Natural
Geology
Mines and mineral resources

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See Automobiles—Instrument panels

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See also
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See also
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Automobiles—Lighting

AUTOMOBILES—Continued

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See also

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Slender Severn suspension bridge. *il map diags Engineering* 202:449-56 S 9 '66

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Tagus River bridge for highway and railway traffic. R. M. Boynton. *il diags Civil Eng* 36:34-40 F '66

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Influence lines

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- Bridge that collapsed at Hatfield. *il Engi-
neering* 201:378 F 25 '66
- Canadians probe bridge failure. *il Eng N*
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- Chicago viaduct slippage laid to several fac-
tors. *Eng N* 176:78 Ad 7 '66
- Disaster experience a costly, but effective
teacher. W. S. Ekern; C. E. Aten. *il Pub*
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- Fire destroys steel truss span. *il Eng N* 176:
19 Ap 28 '66
- Formwork failure on the second Delaware
Memorial bridge suspension span. *Eng N*
176:20 Ap 23 '66
- Haste makes waste; failure to follow plans
charged in bent shifting. *Eng N* 177:16
Jl 14 '66
- Report on the bridge failure at Clapham
Junction. Engineer 220:895-6 N 26 '65
- That signal bridge: why it rusted away. *il*
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- Two die in bridge form collapse. *il Eng N*
176:13 Ad 14 '66
- Viaduct span slips its bearings. *il Eng N*
176:15 Mr 3 '66

BRIDGE railings

- Safety features cut car crashes. *il Eng N*
177:42+ Jl 14 '66

BRIDGE tournaments

- Bridge tournament problem and calibration
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R. C. Bose and J. M. Cameron. *bibliog J*
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with text. Engineer 221:86-7 Ja 14 '66
- Flying culvert spans 100-foot river at Hilltop
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- Pipe lines—Bridge crossing
- San Francisco Bay bridges
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- Charleston, South Carolina
- Cologne, Germany
- Detroit
- Lisbon
- Montreal
- New York (city)
- Newport, Rhode Island
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- St Louis
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Jl '65; Discussion. L. A. Herr. 92 [HY 2
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Costs

- Arizona 10-span concrete bridge; unit prices.
Eng N 177:156 Jl 7 '66
- Baltimore beltway gets bridges; unit prices.
Eng N 176:35 Mr 31 '66
- Bistate bascule bridge; unit prices. *Eng N*
177:138 Ag 11 '66
- Bridge and road jobs in Ohio; unit prices.
Eng N 175:170+ D 16 '65
- Bridge approaches in Florida; unit prices.
Eng N 175:52 N 11 '65
- Building high instead of digging deep in rock
cut Pennsylvania bridge costs; unit prices.
Eng N 176:46 My 5 '66
- Caissons counter currents on Louisiana
bridge job; unit prices. *Eng N* 176:158+
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- Five steel bridges in Delaware; unit prices.
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bridge; unit prices. *map Eng N* 177:55 S 22
'66
- Gravel road and steel bridges; unit prices.
Eng N 177:50 O 20 '66
- Indiana bridge and road work; unit prices.
Eng N 176:132 F 10 '66
- Keen competition for steel road bridge in
Iowa; unit prices. *Eng N* 175:55 N 4 '65
- Massachusetts road and bridges; unit prices.
Eng N 175:51 D 23 '65

Prestressed concrete road bridge; unit prices.

- Eng N* 175:49 D 2 '65
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Eng N 176:147 Ja 27 '66
- Spokane bridge bid won by five per cent;
unit prices. *Eng N* 176:63 My 19 '66
- Substructure for suspension bridge; unit
prices. *Eng N* 175:50 N 25 '65
- Texas road and bridge bids close; unit prices.
Eng N 176:56 Mr 10 '66
- Two timber types compete to protect Illinois
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- Verrazano-Narrows bridge; development and
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teo-Hayward bridge. *il Eng N* 175:25 N 11
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- Big floating crane erects bridge. *il Eng N*
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- Box girders conquer the Rhine. *il diags*
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- Erection of the Wye viaduct. *il diag Engineer*
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BRIDGES—Continued

Foundations and piers

- Dislodged bridge girders are safely repositioned. *il Eng N 176:18-19 Ap 14 '66*
- Epochal bridge starts deep under water; Narragansett Bay, Newport bridge. *il map diags Eng N 177:22-4+ Ag 25 '66*
- Grouting manmade islands; Chesapeake Bay bridge. B. J. Prugh, *il plan diags Am Soc C E Proc 92 [CO 1 no 4621]:37-51 Ja '66*
- Long caissons support an overpass. *il Eng N 177:115-16 JI 7 '66*
- Safety scaffolding aids pier work. *il Roads & Sts 108:70 N '65*
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- Tagus River bridge; tower piers. L. W. Riggs. *il diags Civil Eng 36:41-5 F '66*
- Verrazano-Narrows bridge; construction of tower foundations and anchorages. N. Gray and H. G. Decanog. *il plan diags Am Soc C E Proc 92 [CO 2 no 4744]:95-117 Mr '66*
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Caissons
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Lighting

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- Putting a movable bridge span back in swing. R. P. Papp. *il diags Civil Eng 36:36-9 JI '66*
- Replacement of suspender ropes on George Washington bridge. H. A. Druding. *il diags Civil Eng 36:56-8 JI '66*
- Scows lift smashed swing span for repairs. *il Eng N 176:30-2 Ap 28 '66*
- Suspended ropes on George Washington bridge pass rigid tests but need maintenance. I. P. Gould. *il diags Civil Eng 36:52-5 JI '66*
- Upkeeping an American showpiece. R. L. Moxey. *il Comp Air Mag 71:4-9 Ag '66*
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Model testing

- Suspension bridge model gets excited. *il Eng N 177:105 Ag 11 '66*

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- Use of influence surfaces in assessing moments and stresses in short span bridges subjected to abnormally heavy loads. A. M. Lansdown. *bibliog diags Eng J 49:18-21 Je '66*; Discussion. *49:41-2 Ag '66*

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- Vibration measurements on a modern steel bridge. H. S. Ward. *il diags Eng J 49:15-19 S '66*

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- Mobile units give firm highly mechanized production. *il Welding Eng 51:77-8 JI '66*
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- Over 1300 welded girders used for Detroit's new Fisher expressway bridge. *il Welding J 45:424-5 My '66*
- Welded steel bridge outbids concrete, meets 36-hr time limit. *il Welding Eng 51:94+ Ap '66*
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- Welded studs skidproof bridges. *il Eng N 176:39 Je 2 '66*
- Welding again featured in prize bridges. *il Welding Eng 51:97 My '66*

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- Wings widen Auckland harbor bridge. *il diag Eng N 176:37 Ap 21 '66*

Wrecking

- Bridge demolition at Oroville dam. *il plans diags Civil Eng 36:32-3 Ap '66*

Austria

- Concrete boxes form Austrian bridge. *il Eng N 177:122 JI 7 '66*
- Steel rib cage moves form for elevated Austrian road. *il diags Eng N 176:30-1 Ap 14 '66*

Chile

- Bio-Bio and Maipo bridges. Chile. Engineer 221:281 F 18 '66

Japan

- Linking Japanese islands fulfills an old wish. *il diag Eng N 177:146-7 O 13 '66*

Lebanon

- Arch span sets Lebanese record. *il Eng N 177:121 JI 7 '66*

Luxembourg

- Grand Duchess Charlotte bridge in Luxembourg. *il Engineer 221:370-1 Mr 4 '66*

Netherlands

- Long concrete cantilevers stretch three miles across a Dutch estuary. *il map Eng N 176:34-6 D 23 '65*
- Three miles over water in prestressed concrete. *il Engineering 200:728 D 3 '65*
- BRIDGES (instruments). See Electric instruments; Wheatstone bridge; Wien bridge
- BRIDGES, Aluminum
- 20 year old aluminum bridge; Arvida road bridge in Quebec, Canada. *il Engineering 201:427 Mr 4 '66*

BRIDGES, Arched

- Arch span sets Lebanese record. *il Eng N 177:121 JI 7 '66*
- Czechs cantilever record hinged arch. *il Eng N 176:33-4 Mr 24 '66*
- Hand labor in Afghanistan builds masonry arch bridge, completed in two months. *il Eng N 176:28 Mr 24 '66*
- Portland chooses tied-arch orthotropic bridge as dark horse takes beauty contest. *diag Eng N 175:71 N 18 '65*
- Utah fixes a hinged-arch river span. *il Eng N 175:18 D 2 '65*

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- Brake for a hydraulically actuated bridge. E. F. Allen. *il diag Hydraulics & Pneumatics 19:84-6 F '66*

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- Bridge has five steel design. *diags Roads & Sts 109:71 Mr '66*
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- Stress analysis of cantilevered bridge slabs. A. Coull. *diags Am Soc C E Proc 92 [ST 2 no 4765]:1-18 Ap '66*

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- Austrians minimize falsework on elevated highway. *il Eng N 176:36-7 JI 9 '66*
- Bio-Bio and Maipo bridges, Chile. Engineer 221:281 F 18 '66
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- Bridge girders blend steel and concrete. *il Eng N 176:126+ Ap 7 '66*
- Bridge to higher education at Fairleigh Dickinson university. A. G. Lichtenstein. *il Pub Works 97:97-8 F '66*
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BRIDGES, Concrete—Continued

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- Long concrete cantilevers stretch three miles across a Dutch estuary. *Il map Eng N 175:34-6 D 23 '65*
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- Oakland overpass; a beginning. *Il Prog Arch 47:220-1 Ap '66*
- Oleron bridge construction. *Il Engineer 221:335 F 25 '66*
- Precast box beams form elevated roadway. *Il Eng N 177:36-7+ S 29 '66*
- Second longest prestressed span; Greyfriars bridge, Hereford. *Il Engineering 202:360 Ag 26 '66*
- Steel frame erects Ghana bridge. *Il diags Eng N 177:148-9 O 13 '66*
- Steel rib cage moves form for elevated Austrian road. *Il diags Eng N 176:30-1 Ap 14 '66*
- Sudan bridge sits in Nile silt. *Il Eng N 177:164+ S 15 '66*
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- Unusual case of surface deterioration on a concrete bridge deck. *J. Ryell, bibliog Il Am Concrete Inst J 62:421-42 Ap '65; Discussion, 62:1625-7 D '65*
- Wide bridge spans the Rouge River at Detroit. *Il diag Eng N 176:26-7 Ja 20 '66*

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- Stressing prestressed bridges. *Engineering 202:417 S 2 '66*
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- Bridge to higher education at Fairleigh Dickinson university. *A. G. Lichtenstein, il Pub Works 97:97-8 F '66*
- Prefabricated steel pedestrian bridges. *Il Engineering 200:728 D 3 '65*
- Sub-arc fabricates reversed curve box girder for overpass. *Il diags Welding Eng 51:76-7 F '66*

BRIDGES, Iron and steel

- Begin orthotropic bridge erection; San Mateo-Hayward bridge. *Il Eng N 175:25 N 11 '65*
- Big girder closes interstate gap. *Il Eng N 178:35 Ag 4 '66*
- Box girders conquer the Rhine. *Il diags Eng N 176:61-2+ F 17 '66*
- Bridge girders blend steel and concrete. *Il Eng N 176:126+ Ap 7 '66*
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- Highline minimizes falsework to erect girders on high bridge. *Il diags Eng N 177:26-8 Ag 18 '66*
- New and old bridges; alike but different; Cooper River bridges, Charleston, S.C. *Il diag Eng N 175:90-3 N 18 '65*
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BRIDGES, Lift

- Virginia vertical lift span goes in. *Il Eng N 177:23 S 22 '66*
- See also
Bridges, Bascule

BRIDGES, Movable

- Freighter smashes swing span. *Il Eng N 176:19 Mr 10 '66*
- Putting a movable bridge span back in service. *R. P. Papp, il diags Civil Eng 36:36-9 J1 '66*
- Scows lift smashed swing span for repairs. *Il Eng N 176:30-2 Ap 23 '66*

BRIDGES, Pedestrian. See Bridges, Foot**BRIDGES, Prefabricated**

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BRIDGES, Railroad

- India builds vital rail bridge. *Il Eng N 176:153 Je 16 '66*

BRIDGES, Steel. See Bridges, Iron and steel**BRIDGES, Stone**

- Hand labor in Afghanistan builds masonry arch bridge, completed in two months. *Il Eng N 176:28 Mr 24 '66*

BRIDGES, Suspension

- Aluminium alloy replaces wrought iron. *Il Metallurgia 73:123 Mr '66*
- Bethlehem bids a winning bridge over Narragansett Bay. *Il Eng N 176:20 Ap 28 '66*
- Britain opens the Severn bridge. *Il Eng N 177:14 S 1 '66*
- Can the old spinning wheel retire? *Il Eng N 175:15-16 N 25 '65*
- Danish bridge will be big and beautiful. *Il diags Eng N 176:116+ Ap 7 '66*
- Epochal bridge starts deep under water; Narragansett Bay, Newport bridge. *Il map diags Eng N 177:22-4+ Ag 25 '66*
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- College architecture
- Columns
- Concrete construction

BUILDING—See also—Continued

Concrete houses
Construction equipment
Contractors
Earthquakes and building
Fireproof construction
Foundation soils
Foundations
Framing (building)
Hot water supply
Masonry
Mechanical equipment of buildings
Paneling
Partitions
Piles and pile driving
Public works
Roofs
Shipbuilding
Shoring and underpinning
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Air pollution
Architecture, Domestic
Atomic power plants
Electric lines
Electric plants (central stations)
Electric utilities
Electricity supply
Gas, Natural
Gas, Natural—Pipe lines
Geology
Hydroelectric plants
Iron mines and mining
Lime industry
Mines and mineral resources
Paleogeography
Petroleum
Petroleum industry and trade
Petroleum laws and regulations
Public health
Quarries and quarrying
Roads
Rock products industry
Sewerage
Water, Underground
Water supply

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CANADA

See also subdivision Canada under special subjects, e.g.

Architecture**Atomic research****Building laws and regulations****Chemical education****Chemical industries****Coal trade****Electric lines****Electric plants (central stations)****Electricity utilities****Electricity supply****Electronics industry****Engineering education****Engineering research****Fertilizer industry****Gas. Natural****Gas. Natural—Pipe lines****Gas industry****Geology****Hydroelectric plants****Income tax****Iron industry and trade****Iron ores****Metal trade****Mineral industries****Mining industry and finance****Mining law****Nickel mines and mining****Paint industry and trade****Paper industry and trade****Petroleum****Petroleum industry and trade****Petroleum supply****Plastics industries****Radio broadcasting****Rubber industry and trade****Soap industry and trade****Standards****Steel industry and trade****Steel works****Strikes****Television broadcasting****Textile industry****Transportation****Uranium mines and mining****Water supply****Commerce**

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- Chemical plants—Equipment
- Chemistry, Analytic—Apparatus
- Crucibles
- Distillation apparatus
- Evaporators
- Extraction apparatus
- Gases—Apparatus
- Glassware, Laboratory
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Catalysts
Chemical industries
Cleaning compositions
Drugs
Emulsifiers
Insecticides
Petroleum chemicals
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Refrigerants
Rubber chemicals
Sanitary chemicals
Solvents
Surface active substances
Textile chemicals
Wetting agents

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Dredging
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Dry docks
Embankments
Excavation
Flood control
Foundations
Highway engineering
Hydraulic engineering
Irrigation
Marine engineering
Masonry
Mechanical engineering
Mining engineering
Piers
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Pipe laying
Public works
Railroad engineering
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Castings
Chemical plants
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 Dormitories
 Gymnasiums
 Housing projects, College

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Collagen
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Discoloration
Dyes and dyeing
Food—Color

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Clay
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Earthquakes
Electric plants (central stations)
Floods
Gas, Natural
Geology
Hydroelectric plants
Lead mines and mining
Mines and mineral resources
Molybdenum mines and mining
Paleontology
Petroleum
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Computers—Control applications
Electric control
Electrohydraulic control
Electronic control
Electropneumatic control
Feedback control systems
Governors (machinery)
Hydraulic control
Liquid level control
Machinery, Automatic
Magnetic control
Numerical control
Pneumatic control
Servomechanisms
Telemetering
Temperature—Regulation
Vacuum tubes—Control uses

also subdivisions Control and Control equipment under special subjects, e.g.

Air compressors
Air conditioning equipment
Airplanes
Bakers and bakeries
Boilers
Cement plants
Chemical plants
Concrete plants
Cranes, derricks, etc.
Crushing machinery
Cupola furnaces
Electric plants (central stations)
Elevators
Feeders
Gas burners
Gas turbines
Guided missiles
Heat exchangers
Helicopters
Hydroelectric plants
Lathes
Machine tools
Machinery
Metallurgical plants
Milling machines
Nailing machines
Nuclear reactors
Packaging machinery
Paper and pulp mills
Paper making machinery
Petroleum refineries
Plastics machinery
Power plants
Presses
Printing presses
Pumping machinery, Electric
Punching machinery
Radio telescope
Reactors, Chemical
Refrigeration and refrigerating machinery
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Feeders

Hoisting machinery

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COOLING towers

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Inclusions

See Inclusions (mineralogy and petrology)

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Structures. Theory of

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Airplanes, Military

Airplanes, Supersonic

Ammeters

Amplifiers

Atomic power plants

Automobile engines

Automobiles

Bearings

Chemical plants

Concrete construction

Cranes, derricks, etc.

Diesel engines

Electric plants (central stations)

Electric transformers

Electronic circuits

Freight cars

Heat exchangers

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Electronic control
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Servomechanisms
Switchboards
Thyatron
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 Electric heating
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 Electric control
 Electric driving
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 Electric transmission
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 Switchboards

also subdivision Electric equipment under
 special subjects, e.g.

Airplanes
 Airports
 Apartment houses
 Automobiles
 Cars
 Chemical plants
 Coal mines and mining
 College buildings
 Cranes, derricks, etc.
 Factories
 Food factories
 Hospitals
 Laboratories
 Metal working plants
 Motels
 Municipal buildings
 Office buildings
 Office buildings, Industrial
 Paper and pulp mills
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 Pumping stations
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Poles and towers

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Electric industries

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Accounting

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Will accounting jump to pleas for conformity? *Elec World* 165:39-42 Je 6 '66

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National conference of electric and gas utility accountants

Advertising

Consumers Power gives its emblem modern touch. *il Elec World* 166:45 Ag 22 '66

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Appliance selling

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Buildings

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Costs

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Communications is everybody's job. *Elec World* 165:21 Ja 3 '66

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ELECTRIC utilities—Continued**Employees**

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 As social security costs climb, should pension plans be overhauled? Elec World 164:31-4 D 6 '65
 Do standard lures motivate employees? Elec World 165:39-42 Ja 17 '66
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 Linemen

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 Where is PUC beauty study headed? II Elec World 165:19-20 Ja 3 '66
See also
 Linemen's equipment
 Motor trucks in repair service

Finance

Consumers can buy investor utility. Elec World 164:155-8 N 15 '65
 Co-ops resigned to new money deal. Elec World 164:79-81 N 15 '65
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See also
 Electric rates

Gas competition

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Government ownership

Japan's power feud enters nuclear arena. Elec World 166:50 Ag 8 '66
See also
 Hydroelectric plants—Government ownership

Laws and regulations

Blackout changes outlook in Congress. Elec World 165:39-40 Ja 10 '66
 Blackout committee ponders its future. Elec World 166:17-18 S 26 '66
 Bright future, more regulation seen. L. J. O'Connor. Elec World 164:17-18 N 8 '65
 California cities want underground rule for subdivisions. Elec World 166:43 Ag 8 '66
 Congress listened; blackout, REA bank bill. Elec World 166:35-6 O 31 '66
 Congress probe may go beyond blackout. Elec World 164:41-2 D 27 '65
 Consumer panel talks regulation; not rates. Elec World 165:17-18 My 9 '66
 Court remands Cornwall license to FPC. Elec World 165:41 Ja 18 '66
 Florida's regulatory philosophy reexamined and explained. L. W. Petteway. Elec World 165:64-6-4 My 16; 63-6-4 My 30; 43-5, 87 Je 27; 166:66-9-4 JI 11; 71-4-4 Ag 8; 84-4 S 19; 94-4 O 17 '66
 Illegal plant casts long shadow; Colorado-Ute's Hayden plant. II Elec World 165:31-2 Ap 4 '66
 Industry balks at FPC control of ehv. Elec World 166:45-6 Ag 8 '66
 Moves to widen FPC regulation. Elec World 164:55 D 27 '65
 North Carolina towns to take gripes to lawmakers. Elec World 166:18 JI 4 '66
 Promotional payments battle gets hotter. Elec World 165:17-18 Ap 25 '66
 Service area law crimps North Carolina towns. Elec World 165:80-1 Je 20 '66
 Underground transmission study gets boost in Congress. Elec World 165:47-8 My 16 '66
 Utilities score FPC plan for outage reports. Elec World 166:30 JI 25 '66
 Utilities want pooling exempted from anti-trust. Elec World 166:31-2 JI 25 '66
 Want better regulation? win public support. Elec World 166:39-42 O 24 '66
See also
 Electric rates

Maintenance and repair

Electric utility methods; special report (cont.). II diag Elec World 164:89-153 D 13 '65; 165:75-142 F 7; 57-122, Ap 4; 77-142 My 30; 166:89-158 Ag 8; 93-177 S 19 '66

Management

Cleveland Electric Illuminating decentralizes operations for better service at less cost. II map Elec World 166:31-2, cover O 24 '66
 Consultants; how to pick the right knight. Elec World 166:39-42 JI 18 '66
 Electric heating association meeting pinpoints way to more sales. Elec World 165:45 Je 6 '66
 Four experts pin down utilities. Elec World 165:39-42 My 9 '66
 Let's take the high road to greater sales growth. W. B. Shenk. Elec World 166:104-6-4 O 3 '66

ELECTRIC utilities—Management—Continued

Lose your curiosity? you may be obsolete. Elec World 165:103-6 My 2 '66
 Marketing ideas obsolete? time for a trade-in. Elec World 166:167-70 Ag 8 '66
 Turnkey contracts; some pros and cons. F. G. Hodge. Elec World 164:31-4 D 20 '65
 Utility r&d; which way to Emerald City? Elec World 166:111-14 J1 11 '66

Public relations

Benefits from youth-on-atom meet? Elec World 165:21 Ja 31 '66
 Communications is everybody's job. Elec World 165:21 Ja 3 '66
 Community compatibility factor in station designs. il Elec World 166:54 O 31 '66
 Did blackout tarnish utility image? Elec World 164:31-4 N 22 '65
 Political pole-clutter gives utilities fits. Elec World 166:77-8 O 17 '66

See also

Electric utilities—Service**Purchasing**

Longer lead times confront buyers. il Elec World 164:54 D 27 '65

Radio communication

How PG&E uses communications to link its far-flung system. il map Elec World 165:34-5 Ja 31 '66
 Intercom aids communications with bucket. S. J. Parker, jr. il Elec World 164:140 N 15 '65
 Pacific intertie needs complex communications. il Elec World 165:31+ My 9 '66
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Rates

See Electric rates

Records

Meter record processing automated. H. B. McFarlin, jr. Elec World 165:34 F 14 '66
 Microfilm solves storage problem. il Elec World 165:102-3 My 30 '66

Safety measures

Safe-way is right-way program. il Elec World 165:70+ Ap 4 '66

Service

Cleveland Electric Illuminating decentralizes operations for better service at less cost. il map Elec World 166:31-2, cover O 24 '66
 What about low-use customers? Elec World 166:39-42 Ag 15 '66

See also

American public power association**Statistics**

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 Summer peaks climb 10.1 per cent. map Elec World 166:80-1 O 17 '66
 Winter peaks show hefty gains. Elec World 165:84-5 Mr 21 '66

Taxation

Utilities take tax credit move in stride. Elec World 166:59 S 19 '66

Arizona

WEST sets May for start of two 755-mw units. D. J. Fogarty. il map Elec World 165:89-92 Ap 18 '66

California

California cities want underground rule for subdivisions. Elec World 166:48 Ag 8 '66
 California utility men talk aesthetics. Elec World 165:61-2 Ja 24 '66
 How PG&E uses communications to link its far-flung system. il map Elec World 165:34-5 Ja 31 '66
 Two more California utilities tell underground plans. Elec World 164:22 N 8 '65
 Utility moves in desalting unit to help relieve severe drought. il Elec World 164:23 D 20 '65

Canada

1966 Canadian utility capital spending reflects a sharp rise in the economy. Elec World 165:88-9 Ja 24 '66

Europe

European utilities turn to gas-steam turbine plants. il Elec World 165:55 My 2 '66
 Red bloc nations turn again toward nuclear. Elec World 166:49 Ag 8 '66

Florida

Florida's regulatory philosophy re-examined and explained. L. W. Petteway. Elec World 165:64-6+ My 16; 63-6+ My 30; 43-5, 87 Je 27; 166:66-9+ J1 11; 71-4+ Ag 8; 84+ S 19; 94+ O 17 '66

Georgia

Georgia Power trains salesmen for competitive selling. il Elec World 165:70-1 F 21 '66
 It's a pleasure to call Georgia Power. il Elec World 165:34-5 Ap 11 '66
 Litigants want same result to straighten out property questions. Elec World 165:157 Mr 21 '66

Great Britain

Natural gas and the power stations. Engineering 202:108 J1 15 '66

Japan

Japan's power feud enters nuclear arena. Elec World 166:50 Ag 8 '66

Louisiana

Hurricane-battered utility snaps back, using highly mobile restoration force. E. L. Lancaster and E. W. Tregre. il Elec World 165:42-5 Mr 7 '66

Michigan

Michigan pool to tie with interstate grid. map Elec World 165:21 Ap 11 '66
 Why worry about isolated generation? buy it. il Elec World 164:86-7 N 15 '65

Middle western states

Computer allocates SCEC-TVA exchange. map Elec World 165:21 Ja 17 '66

Missouri

Union Electric scored for curtailing power. Elec World 166:17-18 Ag 15 '66

Nebraska

Court blocks merger of Nebraska power districts. map Elec World 166:41-2 Ag 22 '66

New England

New England merger breaks new ground. Elec World 165:40-1 My 2 '66
 New England moves to big units, ehv. il map Elec World 165:59-60 Ja 24 '66

New Jersey

Leisure world; tops in underground distribution and total electric. S. W. Laird. il Elec World 166:141 S 19 '66

New York (state)

Cornwall much cheaper than other peaking. Con Ed says. Elec World 166:60 S 19 '66
 Northport features off-shore oil depot, noise abatement. B. K. Kelly and F. J. Wells. il plan diag. Elec World 166:47-51 O 31 '66

Nigeria

Nigerians here to learn from US power systems. Elec World 165:47 My 30 '66

North Carolina

Four North Carolina co-ops study merger. Elec World 165:18-19 Je 6 '66
 North Carolina towns to take gripes to lawmakers. Elec World 166:18 J1 4 '66
 Service area law crimps North Carolina towns. Elec World 165:80-1 Je 20 '66

Northeastern states

Northeast power coordinating council meeting. Boston. Elec World 165:67-8 F 21 '66

Oklahoma

Utility recommends 277/480-volt service for large commercial loads. E. F. Buettner. diag. Power Eng 70:52-3 Ag '66

Russia

Reforms to affect USSR power policy. il Elec World 164:19-20 D 6 '65
 Soviet utilities goaded into incentive economics. il Elec World 166:17-18 O 24 '66

South Carolina

Citizens vote to sell public system in South Carolina. Elec World 165:59-60 Ap 18 '66

Southwestern states

Beautility committee offers idea exchange; Utilities appearance committee. Elec World 166:34 S 5 '66

United States

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Virginia regulators crimp promotional allowances. *Elec World* 166:19 J1 4 '66

Washington (state)

Washington Water Power to give beauty treatment to Spokane shorefront property. *Il diag Elec World* 165:114 My 2 '66

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Lunar walker tries toting crippled tots. *Il Machine Design* 38:16+ Je 9 '66

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See also

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Control

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ELECTRIC waves

See also

Electromagnetic waves

Harmonics (electric waves)

Oscillations. Electric

Radio waves

Wave guides

ELECTRIC welding

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Bronze plating

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See also Mammoth
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Chemical workers
Collective bargaining
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Foremen
Government employees
Handicapped
Hygiene, Industrial
Labor contracts
Labor turnover
Medical service, Industrial
Military service—Labor problems
Municipal employees
Physical examinations
Research workers
Sickness
Supervisory workers
Trade secrets
also subdivision Employees under special subjects, e.g.
Atomic power plants
Electric utilities
Gas companies
Highway departments
Hospitals
Oil companies
Paint shops
Paper and pulp mills
Petroleum refineries
Plumbing shops
Printing offices
Rock products plants
Rubber factories
Sewage disposal plants
Steam plants
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See Employees, Dismissal of

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See also

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See Physical examinations

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Surveying instruments

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ENGINEERING law. See Law**ENGINEERING libraries**

See also

Engineering societies library, New York

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- Gas industry
- Heating equipment
- Household products
- Instruments
- Machine tools
- Machinery
- Mechanical handling
- Motor buses
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- Packaging
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Engineering departments

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Factory costs

Foremen

Hygiene, Industrial

Industrial engineering

Industrial management

Industrial relations

Inspection

Inventories

Job work

Material handling

Mechanical handling

Medical service, Industrial

Music in industry

Office management

Organization in industry

FACTORY management—See also—*Continued*

Packing for shipment
Photographic departments
Planning
Production
Production control
Purchasing
Research departments
Routing systems
Safety devices and measures
Schedules
Shipping departments
Standardization
Stores systems
Tool rooms
Vacations
Visitors

also subdivision Management under special subjects, e.g.
Airplane factories
Chemical plants
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- Colleges and universities
- Electronics industry
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Fire departments

Fire extinction

Fire extinguishers

Fire service (water supply)

Fireproof construction

Fireproofing of textiles

Inflammable liquids

Inflammable mixtures

National fire protection association

Sprinkling systems
also subdivision Fires and fire protection under special subjects, e.g.

Airports

Coal mines and mining

Electric plants (central stations)

Gas, Natural

Hospitals

Oil tanks

Paint shops

Petroleum industry and trade

Petroleum refineries

Power plants

Printing offices

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Bakers and bakeries
Baking
Cake
Diet
Digestion
Fish as food
Flavor
Food, Dietetic
Food industry nad trade
Food poisoning
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Insect infestation

See also
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Fruit, Dried

Milk, Dried

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Poultry, Frozen

Sea food, Frozen

Vegetables, Frozen

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FOOD brokers

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Food industry and trade

FOOD containers

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Fish processing plants

Packing houses

Poultry processing plants

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Food machinery

Poultry processing plants—Equipment

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Food, Frozen

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Food, Frozen
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Foundry machinery
Furnaces, iron founding
International foundry congress
Iron founding
Lost wax process
Magnesium founding
Molds (for casting)
Steel castings
Zinc founding

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- Architecture
- Chemical industries
- Education
- Electricity supply
- Electronics industry
- Gas, Natural
- Gas industry
- Hydroelectric plants
- Petroleum
- Petroleum industry and trade
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- Shipbuilding
- Space research
- Telephone
- Television broadcasting
- Textile industry

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FRANKFURTERS. See Sausage**FRANKLIN, Benjamin**

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Freight ships
Packing for shipment
Shipment of goods

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Boilers—Firing

Coal

Coke

Gas, Natural

Gas as fuel

Liquid fuel

Oil fuel

Propellants

Waste fuel

also subdivision Fuel under special subjects, e.g.

Airplane engines

Automobile engines

Blast furnaces

Diesel engines

Electric plants (central stations)

Gas turbines

Gas turbines, Aircraft

Nuclear reactors

Petroleum refineries

Power plants

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See Gas analysis

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- Aerodynamics
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- Furnaces, Carburizing—Atmosphere control
- Gases, Natural
- Gas analysis
- Glass—Gas content
- Helium
- Hydrogen
- Inflammable mixtures
- Ionization, Gaseous

GASES—See also—Continued

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Nitrogen
Oxygen
Propane
Vapor pressure
Vaporization
Vapors

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Building
Building laws and regulations
Building trades
Chemical industries
Cities and towns
Coal mines and mining
Colleges and universities
Cosmetic industry and trade
Electric industries
Electric lines
Electric plants (central stations)
Electric utilities
Electricity supply
Electronics industry
Engineering
Engineering education
Engineering research
Engineers
Fish industry
Food industry and trade
Fuel supply
Gas, Natural
Gas, Natural—Pipe lines
Gas industry
Gas supply
Iron industry and trade
Lead mines and mining
Machinery industry
Metal trade
Metal working industries
Mines and mineral resources
Moving picture industry
Paper and pulp mills
Petroleum industry and trade
Petroleum products pipe lines
Plastics industries
Radio broadcasting
Railroads
Railroads—Electrification
Roads
Scientific education
Shipbuilding
Shipping

GREAT BRITAIN—See also—Continued

Soap industry and trade
Space research
Steel industry and trade
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Heating. Warm air

Heating from central stations

Hot water heating

Insulation (heat)

Lighting—Heating aspects

Oil heaters

Refractory materials

Solar heating

Steam heating

Swimming pools—Heating

Ventilation

also subdivision Heating and ventilation

under special subjects, e.g.

Air raid shelters

Apartment houses

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HOUSES

See also

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Architecture, Domestic
Concrete houses
Country houses
Historic houses
Houses, Prefabricated
National association of home builders

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Airplanes, Military—Hydraulic equipment
Airplanes, Supersonic—Hydraulic equipment
Hydraulic motors
Torque converters
Tractors—Hydraulic equipment

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Automobiles
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Motor trucks, Industrial
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Fluids
Hydraulic engineering
Hydrostatics
Intakes
Jets
Liquids
Nozzles
Run-off
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Settling tanks
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Water
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Steam

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Coal

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Fertilizer industry

Geology

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Engineering departments
Factory management
Foundry management
Industrial engineering
Industrial engineers
Inspection
Inventories
Linear programming
Machinery, Replacement of
Mine management
Office management
Operations research
Organization in industry
Planning
Public relations
Purchasing
Routing systems
Standardization
also subdivision Management under special subjects, e.g.
Airplane factories
Chemical plants
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Printing offices
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Stockpiling

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Laboratories
Lubrication research
Metallurgical research
Operations research
Paint research
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Products, New

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Welding research

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See also

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Roads—Iowa

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See also

subdivision Iran under special subjects, e.g.
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Petroleum industry and trade

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See also

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See also

Deuterium

also subdivision Isotopes under special subjects, e.g.

Argon
 Boron
 Bromine
 Calcium
 Carbon
 Cerium
 Cesium
 Cobalt
 Copper
 Fluorine
 Helium
 Iodine
 Indium
 Krypton
 Lead
 Neodymium
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ISRAEL

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Food industry and trade

Hygiene, industrial

Petroleum industry and trade

Public health

Water, Underground

Water supply

ISTANBUL

Water supply

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ITALY

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Air pollution

Architecture

Atomic power plants

Automobile industry and trade

Chemical industries

Electric plants (central stations)

Electricity supply

Electronics industry

Engineering education

Food industry and trade

Housing

Mines and mineral resources

Petroleum

Petroleum industry and trade

Petroleum products pipe lines

Plastics industries

Steel works

Textile industry

Warships

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- Mines and mineral resources—Jamaica
- Petroleum—Jamaica

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JAPAN

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- Architecture
- Atomic power plants
- Automobile industry and trade
- Bridges
- Building
- Chemical education
- Chemical industries
- Chemical research
- Electric utilities
- Electronics industry
- Food industry and trade
- Gas. Natural
- Gas industry
- Geology
- Metal working industries
- Mines and mineral resources
- Petroleum industry and trade
- Petroleum supply
- Plastics industries
- Public health
- Radio communication
- Railroads
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- Steel works
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 Employees
 Employment management
 Farm labor
 Foundries—Employees
 Government employees

LABOR and laboring classes—See also—Cont.

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Textile workers
Trade unions

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Infrared rays

Interference (light)

Lighting

Photochemistry

Photoelasticity

Photoelectric effect

Photometry

Phototaxis

Plastics, Effect of light on

Polarization (light)

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Stage lighting
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Auditoriums
Automobile sales buildings
Ballrooms
Bank buildings
Bridges
Churches
Courthouses
Dentists offices
Electric plants (central stations)
Factories
Garages
Gardens
Golf links
Gymnasiums
Hangars
Hospitals
Laboratories
Library buildings
Lobbies (architecture)
Lunchrooms and cafeterias, Employees
Motels
Motor vehicles
Moving picture photography
Moving picture studios
Moving picture theaters
Municipal buildings
Museums
Photography
Printing offices
Race tracks
Recreation rooms
Repair shops
Road signs
Roads

- School buildings
Show windows
Sidewalks
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- Air compressors
- Airplane engines
- Automobile engines
- Automobiles
- Bearings
- Bearings, Ball
- Bearings, Roller
- Bearings, Thrust
- Coal mining machinery
- Compressors
- Construction equipment
- Conveying machinery
- Diesel engines
- Diesel engines, Marine
- Electric motors
- Gas compressors
- Gas turbines, Aircraft
- Gearing
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- Chucks
- Dies
- Drafting room practice
- Drilling and boring (metal working, etc.)
- Forging
- Foundry practice
- Gages
- Gear cutting
- Grinding
- Grinding machines
- Grooving
- Hard facing
- Indexing (machine work)
- Inspection
- Lathes

- Machine tools
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- Milling
- Sheet metal work
- Stamping
- Steel works
- Thread cutting
- Tolerance
- Turning
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- Automobile engines
- Axles
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- Cams
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- Cylinders (engines, etc.)
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 Cutting tools
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 Gear cutting machines
 Grinding machines
 Honing machines
 Lathes
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- Grinding
- Holding devices (machine work)
- Honing
- Indexing (machine work)
- Machine shop practice
- Plastics—Cutting
- Reaming
- Time study (of machinery)
- Tolerance
- Turning

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- Bending machines
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- Calenders
- Casting machines
- Clamps
- Cleaning machinery
- Clutches
- Coal mining machinery
- Computers
- Conveying machinery
- Couplings
- Cranes, derricks, etc.
- Crankcases
- Crankshafts
- Crushing machinery
- Cutting off machines
- Die casting machines
- Disks
- Dyeing machines
- Electric machinery
- Electric welding machines
- Engineering
- Escapement mechanism
- Excavating machinery
- Fans. Mechanical
- Filling machines
- Fits (machinery)
- Food machinery
- Forging machinery
- Foundry machinery
- Friction
- Gear cutting machines
- Glass machinery
- Governors (machinery)
- Holding machinery
- Hydraulic machinery
- Hydraulic presses
- Internal combustion engines
- Inventions
- Jacks
- Jigs
- Keys and keyways (machinery)

MACHINERY—See also—*Continued*

Lathes
Looms
Lubrication and lubricants
Machine shop practice
Machine tools
Marking machines
Mechanical engineering
Mechanics
Metal working machinery
Milling machines
Mining machinery
Packaging machinery
Packing
Paper cutting machines
Paper making machinery
Paving machines
Pins, Machinery
Pneumatic machinery
Polishing machines
Power transmission
Presses
Printing machinery
Printing presses
Pumping machinery
Pumps
Refrigeration and refrigerating machinery
Riveting machines
Road making machinery
Rolls
Shafting
Shafts
Shoveling machines
Spinning machinery
Springs (mechanism)
Steam turbines
Tamping machines
Testing machines
Textile machinery
Threading machines
Time study (of machinery)
Trenching machinery
Turbines
Valves
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Welding machines
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Friction
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Keys and keyways (machinery)
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- Economics, Mathematical
- Ellipse
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- Equations, Linear
- Expansion (mathematics)
- Extrapolation
- Fourier series
- Functions
- Geometry
- Graphic methods
- Green function
- Groups, Theory of
- Harmonic analysis
- Integrals
- Integration
- Interpolation
- Iteration (mathematics)
- Legendre functions
- Logarithms

MATHEMATICS—See also—*Continued*

- Matrices
 Mechanics, Celestial
 Metric system
 Numbers, Theory of
 Numeration
 Polynomials
 Probabilities
 Ratio and proportion
 Series (mathematics)
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 Statistical methods
 Topology
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Chromium

Cobalt

Copper

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Deformation (mechanics)

Electrodeposition of metals

Electrometallurgy

Electrons—Emission from metals

Etching (metals)

Fatigue in metals

Films, Metallic

Germanium

Glass—Joining to metal

Gold

Hardness

Heat treatment

Indium

Intermetallic compounds

Ions—Emission from metals

Iron

Lead

Lithium

Manganese

Metallography

Mineralogy

Mines and mineral resources

Molybdenum

Nickel

Niobium

Passivity

Pickling (metals)

Plastics—Joining to metal

Platinum

Precious metals

Printing on metal

Rare earth metals

Ruthenium

Sheet metal

Silver

Soap, Metallic

Sodium

Solder and soldering

Steel

Strength of materials

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Geology
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Metallography
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Petroleum industry and trade—Middle East
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- MIDDLE WEST**
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Eukenite
Flotation process (non-metals)
Franklinite
Garnet
Glauconite
Labradorite
Magnetite
Mica
Mineralogy
Mines and mineral resources
Olivine
Pexmatites
Phlogopite
Phosphate rock
Quartz
Roedderite
Schroekingierite
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Sphalerite
Spinel
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Mixers
Stirrers

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- MOBILE substations. See Electric substations, Portable
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- Atoms
- Crystallography
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See also
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Evaporation

Humidity

Hygrometers

Soil moisture

Water vapor

also subdivision Moisture content under special subjects, e.g.

Clay
 Compressed air
 Gases
 Paper
 Sand
 Textile fibers
 Wood

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Gages food's moisture-in-stream. *il* *Food Eng* 38:184 *Mr* '66

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MOISTURE of soil. See Soil moisture**MOLDED products**

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Aging resin speeds part molding. *il* *Iron Age* 196:152 *N* 11 '65

Airlines' custom plastic shop saves \$200,000 annually. *il* *Plastics World* 24:65 *Ap* '66

Amazing design variation in musical instrument cases. *il* *Mod Plastics* 43:109-11+ *D* '65

Appliances; where custom and captive processors join to develop one of the most exciting markets for plastics. *il* *Mod Plastics* 43:193-5+ *My* '66

Brighteners up almost 100 per cent over previous year. *Mod Plastics* 44:113+ *S* '66

Can reinforced thermoplastic meet your product requirements? *il* *Mod Plastics* 43:102-5+ *Mr* '66

Changed look in structural fabrication. *il* *Mod Plastics* 43:82-5+ *Ag* '66

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Here's one way to foam mold a model terrain. *il* *Plastics Tech* 12:11 *Jl* '66

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Made-to-fit polyethylene tanks. *il* *Plastics World* 24:70 *F* '66

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Molding, finishing products made of fiberglass. P. C. Bardin. *il* *Ind Finishing* 42:60-2+ *Jl* '66

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New prepreps and what they mean. *il* *Mod Plastics* 43:104-8+ *D* '65

New process for in-mold decoration of blow moldings. W. Titow. *il* *diags Plastics Tech* 12:38-40 *Ag* '66

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Now, thin wall thermoforms from polyethylene margarine packages. *il* *Mod Plastics* 43:101 *Mr* '66

Plastics an increasing threat to metals. *il* *diag Brit Plastics* 39:200-3 *Ap* '66

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- Nylon—Molding
- Plastics
- Resinous products

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- Gearing, Plastic

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See also subdivision Montana under special subjects, e.g.

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See also
 Fire apparatus, Motor
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 Refrigeration on cars, trucks, etc.
 Tank trucks
 Tractors
 Trailers

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Brakes

See Brakes, Motor truck

Cabs

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 Space techniques simplify truck testing. *il Machine Design 37:8 D 23 '65*
 Two new lines of White heavy-duty trucks have 14 safety devices as standard items. Automotive Ind 134:63 My 15 '66

Electric equipment

Alternators, si: generators, no! *il Gas Age 132:22-3 N '65*
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 Electric transmission with individual wheel drive proves practical for military trucks. W. Slabak and others. *il map diags SAE J 74:36-40 O '66*
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MOTOR trucks—Continued

Equipment

Hub-mounted odometer, diag Engineering 200: 696 N 26 '65

Exhibitions

British trucks bigger; show emphasizes larger engines, chassis. D. Scott, il diags Automotive Ind 135:65-9 O 15 '66
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GMC hastens holmaking via nc, il Steel 158: 55-6 F 21 '66
Truck frame design and production, L. H. Ames and C. W. Harp, il Automotive Ind 135:82-5 J1 15 '66

Fuel tanks

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Hydraulic equipment

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Hydraulic suspension system activates cargo loader, A. Bloch, il Hydraulics & Pneumatics 19:102-3 Je '66

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Maintenance and repair

Mobil oil corporation's MI/DAC record system cuts fleet costs, C. Hayden, il Diesel Equip Supt 44:54-7 O '66
Modern maintenance boosts efficiency, il Gas Age 132:21 N '65
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Ryder Truck Lines maintenance meeting, il Diesel Equip Supt 44:34-6 Mr '66
Texas' Central freight lines rebuilding the balanced way, il Diesel Equip Supt 44:40-3 Mr '66
This month's equipment superintendent, C. J. Chuck Nassimbene, D-C International, Inc, il Diesel Equip Supt 44:46-9 O '66
This month's equipment superintendent; Dan Thorne, Chino mines div., Kennecott copper corp, il Diesel Equip Supt 44:42-5 Ap '66
This month's equipment superintendent, Edgar Wingate, Houston Shell and Concrete, il Diesel Equip Supt 44:22-5 Ja '66
This month's equipment superintendent, Henry Hansen, Willig freight lines, il Diesel Equip Supt 44:38-9 Je '66
This month's equipment superintendent, Julius Epifito, Campanella & Cardl companies, il Diesel Equip Supt 44:36-9 My '66

This month's equipment superintendent, Max Gramly, Kroger co. il Diesel Equip Supt 44:26-9 S '66

This month's equipment superintendent, Mike Springer, T.I.M.E. freight, inc. il Diesel Equip Supt 44:32-5 Ag '66
This month's equipment superintendent, Paul Waggoner, truck repair shop manager, Safe-way's Denver terminal, il Diesel Equip Supt 43:28-31 D '65
This month's equipment superintendent, Ray Vigue, Maine state highway commission, il map Diesel Equip Supt 44:34-7 F '66

Manufacture

Extensions to heavy vehicle factory, il Engineer 221:282 F 13 '66
Press for the manufacture of long chassis frames, il Automobile Eng 56:405 S '66

Materials

Plastics

How to make a plastic truck cab, il Steel 158:95 My 2 '66

Propeller shafts

Application of tri-drive to four axle, on-off-highway truck posed critical loading problem, A. N. Schuppert, il SAE J 74:54-5 Ap '66

Safety measures

New defenses against hazardous cargoes threatening the streets, il Safety Maint 131:21-2 Je '66
Two new lines of White heavy-duty trucks have 14 safety devices as standard items, Automotive Ind 134:63 My 15 '66

Specifications

Off-highway truck specifications, 1966; tables, Automotive Ind 134:242-3 Mr 15 '66
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Springs and suspension

Hydraulic suspension system activates cargo loader, A. Bloch, il Hydraulics & Pneumatics 19:102-3 Je '66
Leaves are dropping, il Engineering 201:285 F 11 '66
Pedestal specially tested in new tandem suspension design; abstract, I. Maxon, SAE J 74:81 F '66
Torsion rubber suspension for tandem axles gives better truck ride, W. L. Luli and W. J. Young, il diags SAE J 74:63-5 O '66

Starting

Small bargain in starting fluids, il Diesel Equip Supt 43:44 D '65
SAE panel discusses a truck to defy the cold, il Diesel Equip Supt 44:37-9 Mr '66

Steering gear

Big swing to power steering, J. Foland, il Pit & Quarry 59:114+ S '66
Three-axle steering bogie, il Engineering 201: 459 Mr 4 '66

Testing

Charts tell highway vehicles how much they're offtrack, H. Stevens and others, il SAE J 74:60-1 Je '66
Offtracking calculations for trailer combinations, H. Stevens and others, bibliog il diags Pub Roads 34:89-100 O '66

Transmission

Autocar introduces 6x6 line, il Diesel Equip Supt 43:44 D '65
Combination transmission lets truck go fast and slow, G. R. di Dio, il diag Hydraulics & Pneumatics 19:92-3 Mr '66
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Drivelines of the future; will giant trucks be driven with conventional or electric driveline? il Diesel Equip Supt 44:60-3 Ap '66
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Electric transmission with individual wheel drive proves practical for military trucks, W. Slabak and others, il map diags SAE J 74:36-40 O '66
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Future trends in transmissions; abstract, D. Thaw, Engineer 222:490 S 30 '66
Lawn-mower drive helps truck through the mud, il Machine Design 38:42 Ag 18 '66

MOTOR trucks—Transmission—Continued

Leyland's semi-automatic truck transmission. *diag Automotive Ind 135:93 O 15 '66*
 Pitchline velocity is yardstick to transmission power take-off ability; abstract. R. W. Wagner. *SAE J 74:53 F '66*
 Semiautomatic air gaging speeds inspection. *1 Mach 72:104-5 F '66*
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Washing

See Motor trucks—Cleaning

Weight

Dynamic vehicle weighing; an analysis of the broken bridge electronic scale. C. C. Schimpeler and J. A. Dearing. *bibliog plan diag Traffic Q 20:71-93 Ja '66*
 Portable weighbridges for road vehicles. *11 Engineer 222:423 S 16 '66*
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MOTOR trucks, Industrial

Clamp truck can stack up to 32-ft high. *11 Mod Materials Handling 21:73 J '66*
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 Industrial loader. *11 Engineer 220:1018 D 17 '65*

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 Lever palletizes truck loads. *11 Soap & Chem Spec 42:64-5 J 1 '66*

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Road/rail shunter. *11 Engineer 221:863 Je 3 '66*

Safe ride for unstable loads. *11 Mod Materials Handling 21:54-5 F '66*

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Special truck helps double furnace capacity. *11 Foundry 94:146+ Ja '66*

Utility truck has many job uses. *11 Elec Constr & Maint 64:108+ D '65*

Yard fork-lift trucks. *11 Engineer 222:59 J 1 8 '66*

See also

Tractors, Industrial

Drivers

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Maintenance and repair

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Safety measures

Control of exhaust fumes underground. *11 Safety Maint 131:43-4+ My '66*

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Transmission

Unusual designs reduce cost, increase design freedom, while maximizing machine usefulness. *11 diag SAE J 74:100-7 S '66*

Wheels

Electric motorised wheel. *diag Engineer 221:814-15 My 27 '66*

MOTOR trucks, Military

Developments in British fighting vehicles. *11 Engineer 222:517-18, 555-8 O 7-14 '66*

Electric transmission with individual wheel drive proves practical for military trucks. W. Slabak and others. *11 map diag SAE J 74:36-40 O '66*

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MOTOR trucks and roads

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See also

Road traffic

MOTOR trucks in construction work

Custom-rigged truck lays cable directly into trench. *11 Elec World 166:162 S 19 '66*

MOTOR trucks in freight service

East Texas Motor Freight fleet for the 70s. *11 Diesel Equip Supt 44:42-5 J 1 '66*

Economy and speed mark revolution in bulk transport. G. K. Schenck. *11 diag Rock Prod 69:117-21 My '66*

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This month's equipment superintendent; Dan Thorne, Chino mines div, Kennecott copper corp. *11 Diesel Equip Supt 44:42-5 Ap '66*

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MOTOR trucks in repair service—Continued.

This month's equipment superintendent, Jim Harp, Potomac Edison's hydraulic units. *il Diesel Equip Supt 44:28-31 J1 '66*
Tie-wire dispenser is handy. *il Elec World 165:116 F 7 '66*

MOTOR trucks in rock products industry

Addition of quarry haulage truck cuts unit cost, boosts production. *il Pit & Quarry 53:44+ N '65*

Aluminum haulage bodies rack up impressive performances. E. W. Stearn. *il Rock Prod 68:78 N '65*

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MOTOR trucks in the petroleum industry

Mobil oil corporation's MI/DAC record system cuts fleet costs. C. Hayden. *il Diesel Equip Supt 44:54-7 O '66*

MOTOR trucks on rails

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MOTOR vehicle fleets

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Ryder Truck Lines maintenance meeting. *il Diesel Equip Supt 44:34-6 Mr '66*

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This month's equipment superintendent: Bill Lindsay, Inland Transportation-Pacific Garages-National Truck Leasing combine. *il Diesel Equip Supt 44:24-7 Mr '66*

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See also

Automobiles

Electric vehicles

Motor buses

Motor trucks

Road traffic

Snow sleds

Tractors

Design

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Electric equipment

Le Tourneau-Westinghouse cuts earth-mover electrical maintenance costs. *il Diesel Equip Supt 44:44 Ja '66*

Hydraulic equipment

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Maintenance and repair

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Track layer types

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MOTOR vehicles—Transmission—Continued

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NATIONAL electrical manufacturers association

Annual meeting, 39th, Washington. *Elec World* 164:75-6 N 29 '65; *Wire & Wire Prod* 41:103-4+ Ja '66

NATIONAL engineering laboratory. See Great Britain—National engineering laboratory**NATIONAL fire protection association**

Annual meeting, 70th, Chicago, May 16-20; abstracts of papers. *Elec Constr & Maint* 65:196+ Je '66

NATIONAL institute of ceramic engineers

Membership roster. *Am Cer Soc Bul* 45:998-1000 O '66

NATIONAL lime association

Annual meeting, 64th, Litchfield Park, Ariz. *Rock Prod* 69:106-4 Je '66

Annual meeting, 64th, Phoenix, Ariz. April 5-6; abstracts of papers. *Pit & Quarry* 58: 68-72 Je '66

NATIONAL limestone institute

Annual meeting, 21st, Washington, Jan. 17-19; with abstracts of papers. *Pit & Quarry* 58:154-9 Mr '66; *Rock Prod* 69:104-6 Mr '66

Midyear meeting, St. Charles, Ill. July 23-26. *Pit & Quarry* 59:124-5+ S '66

NATIONAL machine tool builders association

Annual meeting, 64th, Miami. *Automotive Ind* 133:77+ D 1 '65

Builders push fight for essentiality. *Am Mach* 110:106-7 Ag 15 '66

NATIONAL metal congress

ASM congress and national metal exposition, Chicago. Oct. 31-Nov. 3; preview. *Il Automotive Ind* 135:98-100 O 15 '66

NATIONAL metal decorators association

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NATIONAL monuments

See also

Chiricahua National Monument, Arizona

NATIONAL petroleum council

NPC riding high in Washington. G. T. Kinney. *Oil & Gas J* 64:81-3 Ag 1 '66

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NATIONAL ready mixed concrete association

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NATIONAL research development corporation. See Great Britain—National research development corporation**NATIONAL rural electric cooperative association**

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NATIONAL safety council

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NATIONAL sand and gravel association

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- Shipbuilding
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- Direction finding apparatus
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- Steering gear

NAVIGATION, Aerial. See Air navigation**NEBRASKA**

- See also* subdivision Nebraska under special subjects, e.g.

- Electric utilities
- Gas, Natural
- Geology
- Petroleum
- Petroleum industry and trade

NEEDLE bearings. See Bearings, Needle**NEEDLE loom non-wovens. See Textile fabrics—Bonded web****NEEDLES**

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See also subdivision Netherlands under special subjects, e.g.

- Architecture, Domestic
- Atomic research
- Bridges
- Electric plants (central stations)
- Electronics industry
- Gas, Natural
- Gas, Natural—Pipe lines
- Medical service, Industrial
- Roads
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 Nucleons

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NEVADA

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Geology

Gold mines and mining

Gypsum mines and mining

Mines and mineral resources

NEW BRUNSWICK

See also

Hydroelectric plants—New Brunswick

Mines and mineral resources—New Brunswick

Soils—New Brunswick

NEW ENGLAND

See also subdivision New England under special subjects, e.g.

Electric lines

Electric utilities

Electricity supply

Water supply

NEW HAMPSHIRE

See also

Mines and mineral resources—New Hampshire

NEW HAVEN, Connecticut

Architecture

Miniscule Mont-St-Michel, il plans diag Prog Arch 47:218-19 Ap '66

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NEW JERSEY

See also subdivision New Jersey under special subjects, e.g.

Architecture, Domestic

Atomic power plants

Electric utilities

Geology

Hydroelectric plants

Mines and mineral resources

Roads

Water supply

Zinc mines and mining

NEW MEXICO

See also subdivision New Mexico under special subjects, e.g.

Copper mines and mining

Gas, Natural

Geology

Mines and mineral resources

Molybdenum mines and mining

Petroleum

Petroleum industry and trade

Roads

Uranium mines and mining

Water supply

NEW ORLEANS

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Housing—New York (city)

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Architecture, Domestic
Atomic power plants
Building laws and regulations
Electric utilities
Gas, Natural
Geology
Hydroelectric plants
Mines and mineral resources
Petroleum
Roads
Water supply
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NEW ZEALAND

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Chemical industries
Electric lines
Electricity supply
Hydroelectric plants
Petroleum industry and trade
Roads
Volcanoes

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See also

Hydroelectric plants—Newfoundland
Iron ores—Newfoundland
Petroleum—Newfoundland
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See also

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Radar—Interference

Radio communication—Interference

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- Silencers
- Soundproofing
 - also subdivision Noise under special subjects, e.g.
- Air conditioning equipment
- Airplanes
- Airplanes, Jet propelled
- Amplifiers
- Amplifiers, Transistor
- Automobiles
- Blowers
- Crystal diodes
- Diesel engines, Automotive
- Electric fans
- Electric machinery
- Electric transformers
- Electronic apparatus and instruments
- Fans, Mechanical
- Gas turbines, Aircraft
- Heat exchangers
- High fidelity sound systems
- Lasers
- Machinery
- Moving picture studios
- Oil burners
- Oscillators
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- Geology—North Carolina
- Mines and mineral resources—North Carolina
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- Phosphate rock—North Carolina
- Public health—North Carolina

NORTH DAKOTA

- See also
- Geology—North Dakota
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NORTH SEA

- See also
- Gas, Natural—North Sea

NORTHEAST

- See also
- Electricity supply—Northeastern states
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- Irradiation proves key to new cool-cured coatings. J. J. Kelleher. *II diags Product Eng* 37:44-6 JI 4 '66
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PAINT—Drying—Continued

Quick cure of a coated surface. *il Mech Eng* 88:45 Ag '66
 Radiation cured coatings cut costs. *il Materials in Design Eng* 64:23+ Ag '66

Failure

Coated brads bleed through finish; question and answer. *Ind Finishing* 42:92+ N '65
 Cold temperature cracking. N. Gaynes. *Ind Finishing* 42:30 N '65
 First aid for finishes: why finishes go flat. D. Flaumenhaft. *il Ind Finishing* 42:64-6+ Ap '66; Discussion. N. I. Gaynes. *Ind Finishing* 42:96+ Je '66
 Paint additives: the finishing touch: additives that reduce flooding, floating or silking. H. P. Preuss. *bibliog il Metal Finishing* 64:95-7+ Je '66
 Problems; what causes some of them. K. Schreiber. *Ind Finishing* 42:52+ My '66
 What may contaminate your finish; editorial. C. Hobardo. *Ind Finishing* 42:81-2 S '66
 What orange peel is. *Ind Finishing* 42:127 O '66

Prices

Cost of putting color into paint; with table. E. J. Webb. *Ind Finishing* 42:56-7 JI '66

Specifications

To write material specs? how will it be put on? N. I. Gaynes. *Ind Finishing* 42:94-5 Ag '66

Storage

Ford plant handles paints in bulk. *il Metal Finishing* 64:78-9 S '66

Stripping

See Paint removers

Testing

Abrasion resistance; some tests misleading. E. Green. *Ind Finishing* 42:76 Ja '66
 Dip tank operation and maintenance. K. Schreiber. *il Ind Finishing* 42:104-7 JI '66
 Do you need to test the finish you buy? editorial. E. Green. *Ind Finishing* 42:78-9 Ag '66
 Gloss measurements; expect variations. N. I. Gaynes. *Ind Finishing* 42:36-8 S '66
 Testing methods can be improved; editorial. C. Green. *Ind Finishing* 42:76-7 O '66
 Variables can enter tape tests for adhesion; editorial. *Ind Finishing* 42:74 My '66
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PAINT, Anti-fouling

Biological method for the assessment of leaching rates of antifouling compositions. P. Rivett. *il J Ap Chem* 15:469-73 O '65
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PAINT, Heat resisting

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 Novel ultraviolet radiation absorbers in satellite temperature control coatings. H. H. Hormann. *bibliog il Ind & Eng Chem Product Res & Develop* 5:92-6 Mr '66

PAINT, Luminous

What finish for brass fishing lures? answer. *Ind Finishing* 42:92+ Ap '66

PAINT, Protective

Acrylic coatings show promise for protecting luster of polished zinc. *il Metal Finishing* 64:64-7 Mr '66
 Best ways found to coat galvanized. *Product Eng* 37:62 Ag 1 '66
 Coatings for buildings and machines; what today's new ones can do for you. D. W. Eugene. *il Textile World* 116:65-7 Ja '66
 Embrittlement of high-strength steels by pretreatment with etching primer paints. J. F. Andrew and E. S. Spencer-Timms. *Iron & Steel Inst J* 204:28-9 Ja '66
 Guard rail painting or galvanizing: a cost analysis. V. G. Marcoux. *il Pub Works* 97: 83-90 JI '66
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 Interior painting of steel water storage tanks. J. D. Keane. *il diag Am Water Works Assn J* 58:181-92 F '66
 New paint solves aircraft corrosion problems. *Chem & Eng N* 43:56 N 8 '65
 Paint for pre-coated plywood. T. C. Patton. *il Arch Rec* 139:233-4 Ap '66

Prepaint or post-paint? for the final finish; symposium. *il Product Eng* 37:84-90 F '66

Production painting keeps traffic signals bright. F. C. Rawlins and R. Baker. *il Pub Works* 96:79-80 D '65
 Sharp edge protection with thick coatings. P. Grene. *Ind Finishing* 42:95-6 Ja '66
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See also

Paint, Anti-fouling

PAINT, Temperature indicating

Temperature-indicating paints are aid to gas-turbine designers. W. H. Duffey. *il diag SAE J* 74:82-4 O '66

PAINT containers

300-gallon tanks simplify bulk handling of paint. *il Plant Eng* 20:172 My '66

PAINT factories**Equipment**

Revamped mechanical handling increases packaging capacity. Sherwin-Williams co. A. Barkman and others. *il diag Plant Eng* 20:124-6 S '66

PAINT industry and trade

Coatings clinic; your supplier. J. L. Nelesen and J. Serketich. *Ind Finishing* 42:68-9 Je '66

Credit, a touchy subject; but it must be faced. Gaynes. *Ind Finishing* 42:76-7 F '66
 Getting through to right man is tough; editorial. C. Green. *Ind Finishing* 42:80 O '66

Paint manufacturers, how's your efficiency? B. Nassberg. *Ind Finishing* 42:68+ N '65
 Principles of surface coating technology. D. E. Parker. *Review, by C. A. Campbell, Chem & Ind p* 1994-5 D 4 '65

See also

Oil and colour chemists association

Paint—Prices

Salesmen

Are your purchasing habits fair to all? Norman. *Ind Finishing* 42:14+ F '66

How to find and develop industrial paint accounts. R. J. Webb, jr. *Ind Finishing* 42: 92+ My '66

Some thoughts about selling paint materials; editorial. N. I. Gaynes. *Ind Finishing* 42: 76-7 JI '66

Why be afraid of selling? editorial. *Ind Finishing* 42:72+ Mr '66

Statistics

Facts and figures for the chemical process industries: polymers and coatings. M. S. McDonald. *Chem & Eng N* 44:supp 54A-8A S 5 '66

Canada

New methods stir up industrial paints. *il Can Chem Process* 50:69-73 S '66

Paint makers; fighting for survival? *il Can Chem Process* 50:99-103 Ag '66

Review 65, preview 66; paints: a grey sales picture for '65. *il Can Chem Process* 50:70+ Ja '66

PAINT materials

Cold applied cold tar paints. F. Whittier. *Ind & Eng Chem* 58:33-6 Ap '66

Formulation, compromise; the important qualities. E. Green. *Ind Finishing* 42:72+ F '66

Keep material viscosity constant, automatically. *Ind Finishing* 42:144 S '66

Metallic content of modern paints. N. Gaynes. *Ind Finishing* 42:90-2 Ja '66

Organic? inorganic? which? answer. K. Schreiber. *Ind Finishing* 42:95-6 F '66

Paint additives: the finishing touch (cont). H. P. Preuss. *bibliog il Metal Finishing* 63: 69-71+ D '65; 64:61-3 Mr; 63-6 Ap; 65-7 My; 95-7+ Je; 53-7 JI; 67-70 Ag; 71-5 S; 73-7 O '66

Pittsburgh Plate Glass paint uses vinyl chloride. *Chem & Eng N* 44:34-5 Ag 29 '66

Primer pigments. *Ind Finishing* 42:99-101 AD '66

Problems; what causes some of them. K. Schreiber. *Ind Finishing* 42:52+ My '66

Vinyl acetate/ethylene copolymer latex gives paints with high durability. *il Chem & Eng N* 43:58 N 8 '65

Zinc-rich paint can be applied in any weather. *il Materials in Design Eng* 62:15+ N '65

See also

Drying oils
 Pigments
 Soap, Metallic
 Tall oil

PAINT mixers

First aid for finishes; why finishes are too glossy, D. Flaumenhaft, *Ind Finishing* 42: 58-60+ S '66

PAINT removers

New resins require better paint strippers, K. Schreiber, *Ind Finishing* 42:74+ Ja '66

PAINT research

Raw material labs; gold mine of information; editorial, *Ind Finishing* 42:78+ Je '66
Research and development of marine paints, A. D. C. Hamilton, *il diags Naval Eng J* 78:145-9 F '66

PAINT rollers

Both sides coated once through roller coater, J. Hyler, *il Ind Finishing* 42:92 JI '66

PAINT shops

To have dust-free finishing, *Ind Finishing* 42:54 N '65

Costs

Cost of finishes; more factors that count, E. V. Goldstein, *Ind Finishing* 42:110-12 Je '66

Here's where you might cut some costs; editorial, P. C. Bardin, *Ind Finishing* 42:71-2 Mr '66

Too much expense for repair finishing; editorial, K. Schreiber, *Ind Finishing* 42:77-8 Je '66

When a quality finish isn't needed, K. Schreiber, *Ind Finishing* 42:90-2 Mr '66

Employees

Is touch-up necessary? man; space; time, K. F. Schreiber, *Ind Finishing* 42:74+ F '66

To understand directions he may need help, G. M. Dodson, *Ind Finishing* 42:82 Ag '66

Equipment

Airless electrostatic spray painting setup, F. D. Johnson, *il Ind Finishing* 42:42-4+ Ja '66

Automatic labor saving and control devices, P. C. Bardin, *Ind Finishing* 42:111-12 My '66

Automatic striping machine for moldings, *il Ind Finishing* 42:121 JI '66

Custom finishing; diversified products, S. F. Wool, *il Ind Finishing* 42:100-4 F '66

Dip tank operation and maintenance, K. Schreiber, *il Ind Finishing* 42:104-7 JI '66

Dynacore; new coating technique, K. H. Morganstern, *il diags Ind Finishing* 42: 42-4+ Ag '66

Edge coating; graining a versatile machine, *il Ind Finishing* 42:103-4 Ja '66

Faster tape masking for two-tone painting, P. C. Bardin, *Ind Finishing* 42:109-10 S '66

Finishing fine occasional furniture, H. H. McCloskey, *il Ind Finishing* 42:62-4+ Je '66

Handle your graining rolls very carefully, P. C. Bardin, *Ind Finishing* 42:86-7 F '66

Hooks and work holders; ways to make your own, *Ind Finishing* 42:99-100 Mr '66

Machine brushes panels clean before coating, *il Ind Finishing* 42:82 Je '66

Royalmetal setup for finishing furniture, C. Engstrom, *il plan Ind Finishing* 42:106-8+ Ag '66

Straining paint easily, quickly, economically, L. Stone, *diags Ind Finishing* 42:34 Ag '66

To always have clean conveyor hooks, *Ind Finishing* 42:100-1 N '65

Two-tone graining from a single roller, P. C. Bardin, *il Ind Finishing* 42:56-8 F '66

Vacuum metallizer needs maintenance, H. B. Hebble, *il diags Ind Finishing* 42:102-4 Ag '66

Fires and fire protection

Finishing room fires; a safety reminder chart, *Ind Finishing* 42:79-80 Ag '66

It interrupts production; don't let it happen; editorial, *Ind Finishing* 42:74+ My '66

Static electricity fire, A. T. Ehrensing, *Ind Finishing* 42:104 My '66

Heating and ventilation

Air conditioning for spray painting, *il Engineering* 202:296 Ag 12 '66

Back-to-back paint booths fit the product, share air supply, W. E. Warner, *il plan Plant Eng* 20:136-8 Je '66

Capture and clean dust and fume laden air, *Ind Finishing* 42:142-3 S '66

Humidity affects finishes, *Ind Finishing* 42: 107-8 S '66

Layout

Cleaning, painting and baking layout has new efficiency, *il diags Ind Finishing* 42: 62-4+ O '66

New layout increases production over 25 per cent, J. W. Lamprecht, *il diags Ind Finishing* 42:48-50 O '66

Signal co's modern setup for production painting, A. Kalen, *flow diag il Ind Finishing* 42:24-6+ Je '66

Management

Invest something? no, discover it? yes; editorial, G. M. Dodson, *Ind Finishing* 42:78 O '66

Sound-proof shop office, *Ind Finishing* 42:106-7 My '66

Think clearly, then express yourself, C. W. Bethke, *il Ind Finishing* 42:129-30 Je '66

Quality control

Quality control; factor in modern competition, *Ind Finishing* 42:106-7 S '66

Quality control in the finishing room, A. R. Neal, *Ind Finishing* 42:93-5 Mr '66

Quality control, with human variations, N. I. Gaynes, *Ind Finishing* 42:111-13 S '66

Rejects cost money; how to reduce them, P. C. Bardin, *Ind Finishing* 42:96-7 JI '66

Spot check; good, bad, or; editorial, *Ind Finishing* 42:77 O '66

To have better finishes observe these rules, E. Foley, *Ind Finishing* 42:100-1 Mr '66

Too much expense for repair finishing; editorial, K. Schreiber, *Ind Finishing* 42:77-8 Je '66

Safety measures

Prevent plant explosions and burn-downs, N. I. Gaynes, *Ind Finishing* 42:98-100 Ag '66

Prevents electric sparks from starter switches, P. C. Bardin, *Ind Finishing* 42: 100-1 JI '66

Waste

Prevention of air pollution by fumes from baking finishes, J. Westchester, *Metal Finishing* 64:70-2+ O '66

PAINT spraying

Air conditioning for spray painting, *il Engineering* 202:296 Ag 12 '66

Airless spray aids finishing, *il Plastics World* 24:71 F '66

Airless spray painting, J. H. Reichenbach, *bibliog diags Plating* 53:991-4 Ag '66

Colors for sunken letters in nameplates, *Ind Finishing* 42:104-5 Ag '66

Fast color changes; one hose; one gun, *Ind Finishing* 42:105-6 My '66

Finish cast iron plano plates; question and answer, *Ind Finishing* 42:91 Ag '66

Flame sprayed coatings, J. A. Mock, *il diags Materials in Design Eng* 63:89-104 F '66 (reprints 90c)

Heated airless spray helped efficiency in finishing furniture, C. E. Fuller, *il Ind Finishing* 42:78-9 Mr '66

High volume hot airless spray, *il Ind Finishing* 42:114 JI '66

Highway lane stripers uses airless paint spray, J. E. Walter, *il Pub Works* 97:37-8 Ag '66

Importance of clean, dry air in spray painting, W. Rudolph, *il diags Metal Finishing* 63:64-8 N '65

Is touch-up necessary? man; space; time, K. F. Schreiber, *Ind Finishing* 42:74+ F '66

New system spells economy and quality in casket finishing, W. Kells, *il Metal Finishing* 64:79-81 Ja '66

Overspray and down time problems solved, M. Barlet, *Ind Finishing* 42:71 Je '66

Painting jet aircraft with hot airless spray, J. E. Bearman, *il Ind Finishing* 42:54-5 Mr '66

Painting long slender steel sub-assemblies, A. M. Dickson, *Ind Finishing* 42:108-9 JI '66

Painting pails at high speed, H. Chase, *il Metal Finishing* 63:74-6 N '65

Painting steel frames by airless spray, D. W. Musselman, *il Ind Finishing* 42:40-2+ F '66

Painting with airless spray, R. T. Schafer, *Ind Finishing* 42:52-4+ Ag '66

Spray coating sheets of vinyl, J. Fletcher, *il Ind Finishing* 42:48-50+ N '65

Spray paint in the open with hot airless process, *il Mach* 73:127 S '66

Sprayed-metal and paint coatings protect wrought iron furniture, *il Metal Finishing* 64:50-2 Ap '66

Sprayed-on roof coatings reduce maintenance effort, cost, *il Plant Eng* 20:159 O '66

Try plasma jet coating on trial basis, *il Plastics Tech* 11:15 D '65

See also

Masking

Booths

Back-to-back paint booths fit the product, share air supply, W. E. Warner, *il plan Plant Eng* 20:136-8 Je '66

Down-draft booth has grate-cleaning setup, P. C. Bardin, *Ind Finishing* 42:105-6 S '66

PAINT spraying—Booths—Continued

- Painting buses in a traveling spray booth. L. G. Anderson. *Il Ind Finishing* 42:46-8+ J1 '66
- Put overspray arrestors in dry spray booths. Probo. *Ind Finishing* 42:102-3 My '66
- Reduce and catch overspray. *Ind Finishing* 42:103-4 O '66
- Spray booth filters; when to change. *Ind Finishing* 42:102 O '66
- PAINT spraying, Electrostatic**
- Airless electrostatic spray painting setup. F. D. Johnson. *Il Ind Finishing* 42:42-4+ Ja '66
- Color coating small appliances. A. C. Gibbens. *Il Ind Finishing* 42:22-4+ O '66
- Controls feature of painting system. *Il Steel* 159:104 O 31 '66
- Electrostatic assist for sprayed slurries. F. M. Giordano. *Il diag Tool & Manuf Eng* 66:47-9 My '66
- Electrostatic atomization and spray painting. R. L. Hines. *bibliog il diag J Ap Phys* 37:2730-6 Je '66
- Electrostatic painting cuts costs 25 to 35 per cent. *Il Steel* 158:35 Je 20 '66
- Electrostatic setup for painting light fixtures. B. Tyma. *Il Ind Finishing* 42:40-2+ N '65
- Eliminate messy maintenance painting with electrostatic hand guns. C. J. Vlahos. *Il Mill & Factory* 77:74-5 N '65
- Finishing Burroughs computing machines. L. R. Saum. *Il Ind Finishing* 42:68-70+ S '66
- Finishing long extrusions electrostatically; new plant tailored for high production and economy. P. Russo. *Il diag Metal Finishing* 64:58-61 Ag '66
- Finishing metal furniture. A. A. LeVine. *Il Ind Finishing* 42:26-8+ S '66
- I had to find a better way; Ransburg electrocoating corp. *Il Am Mach* 110:119-20 Ap 25 '66
- Paints farm equipment more economically. K. Merner. *Il Ind Finishing* 42:22-4+ J1 '66
- Powder sprayed electrostatically coats steel pipe. C. R. Thatcher. *Il Ind Finishing* 42:48-50+ F '66
- System brings vacation from holidays. *Il Steel* 158:59-60 F 21 '66
- Valves; airless painting; infrared baking. *Il Ind Finishing* 42:100-1 Ja '66
- Will electrostatic work? *Ind Finishing* 42:32 N '65
- Wrought iron furniture; electrostatic painting. H. C. Pedersen. *Il Ind Finishing* 42:54-6+ O '66

PAINT stripping. See Paint removers**PAINTING***See also***Mural painting and decoration****PAINTING, Industrial**

- Aluminum firm pioneers two coat systems. O. Skiver. *Il Mod Metals* 22:84+ Je '66
- Auto makers try painted polypropylene. *Il Chem & Eng N* 44:41-2 Ja 3 '66
- Automatic controls keep prime coating line on stream; electrophoretic deposition at Ford motor company's assembly plant. R. Bingham. *Il diag Plant Eng* 20:140-2 Mr '66
- Automatic indexing fixture. *Il Ind Finishing* 42:110-11 J1 '66
- Better dip painting, using trichloroethylene. *Il plan diag Engineering* 201:966-7 My 20 '66
- Charged powders produce even coatings. F. M. Giordano. *Il Tool & Manuf Eng* 66:76-8 Ap '66
- Choice of a color for decoration plus utility. N. I. Gaynes. *Ind Finishing* 42:93-5 J1 '66
- Coil coaters expand facilities to keep pace with zooming sales. *Il diag Mod Metals* 21:68+ N '65
- Come in paint finishing; electrocoating. *Il diag Steel* 157:106-9 D 6 '65
- Cost of finishes: more factors that count. E. V. Goldstein. *Ind Finishing* 42:110-12 Je '66
- Custom coating with powder fusion epoxies. B. L. Downey. *Il Ind Finishing* 42:22-4+ Ap '66
- Dip tank operation and maintenance. K. Schreiber. *Il Ind Finishing* 42:104-7 J1 '66
- Electrocoating. F. Steinhebel. *Ind Finishing* 42:30-2 My '66
- Electrocoating; a modern painting method. C. O. Hutchinson. *flow charts il Plating* 52:1183-7 N '65
- Electrodeposition of paint. E. F. Alford. *Plating* 53:478-80 Ap '66
- Electrophoresis; GM develops ELPO system. F. C. Bardin. *Il Ind Finishing* 42:22-4+ Ar '66
- Electrophoretic painting setup in England. G. T. Tranter. *Il Ind Finishing* 42:78-80 Ja '66

- Finishes used in coil coating. M. C. Post. *Ind Finishing* 42:46+ Mr '66
- Finishing extruded and molded rubber products. D. Miller. *Il Ind Finishing* 42:58-60 N '65
- Finishing license plates in state prison. G. E. Toles. *Il Metal Finishing* 64:98-100 Je '66
- For more successful dip coating. *Ind Finishing* 42:98-9 N '65
- Ford motor company's electrocoating process; an application of organic-electrochemistry. G. L. Burnside and others. *Il diag Plating* 52:1162-4 N '65
- Humidity and corrosion control. N. I. Gaynes. *Ind Finishing* 42:98-9 J1 '66
- Install high volume extrusion painting line. *Il Light Metal Age* 24:8+ F '66
- Irradiation proves key to new cool-cured coatings. J. J. Kelleher. *Il diag Product Eng* 37:44-6 J1 4 '66
- Job shop finishing; many kinds of work. H. Chasse. *Il Ind Finishing* 42:40-2+ Je '66
- Mechanics of wood graining. R. A. Moritz. *Il Ind Finishing* 42:86-8+ S '66
- Organosol finish is chosen for electronic equipment. C. M. Jeffries. *Il Ind Finishing* 42:24-6+ N '65
- Paint finishing of galvanized steel. J. Belford. *Ind Finishing* 42:60-2+ Ag '66
- Paint plating in practice. L. L. Spiller. *Il Metal Prog* 89:156+ Mr '66
- Precoated steels. C. M. Parker. *Il diag Am Mach* 110:129-36 S 12 '66 (reprints 50c)
- Primer selection; key to successful painting systems. *Plant Eng* 20:132-3 Mr '66
- Problems in roller coating. N. I. Gaynes. *Il Metal Finishing* 63:72-6 D '65
- Produce marble effect finishes. *Ind Finishing* 42:38 S '66
- Radiation unit cures paint. *Il Chem & Eng N* 44:29 Je 13 '66
- Republic's continuous paint line completes break-in period. *Il Iron & Steel Eng* 43:155-6 J1 '66
- Signal co's modern setup for production painting. A. Kalen. *flow diag il Ind Finishing* 42:24-6+ Je '66
- Structural steel wears a blue coat for safety. *Il Plant Eng* 20:120 Ap '66
- What's needed for a good paint dipping job. Foley. *Il Ind Finishing* 42:105-6 O '66
- See also*
- Paint. Protective
- Paint removers
- Paint shops
- Paint spraying
- also* subdivisions Painting and Painting and finishing under special subjects, e.g.
- Airplanes
- Automobiles
- Domestic appliances
- Factories
- Kitchen cabinets
- Motor buses
- Presses
- Textile mills
- Water tanks, Steel
- PAKISTAN**
- See also*
- Atomic research—Pakistan
- Electric railroads—Pakistan
- Gas, Natural—Pakistan
- Geology—Pakistan
- Hydroelectric plants—Pakistan
- Irrigation—Pakistan
- Antiquities**
- Decline of the Harappans. G. F. Dales. *Il mans diag Sci Am* 214:92-8+ My '66
- PALATABILITY. See Flavor**
- PALEOBOTANY**
- Cretaceous**
- Cretaceous floras from Kuk River area, Alaska; stratigraphic and climatic interpretations. C. J. Smiley. *bibliog Geol Soc Bul* 77:1-13. pl 1 Ja '66
- Alaska**
- Cretaceous floras from Kuk River area, Alaska; stratigraphic and climatic interpretations. C. J. Smiley. *bibliog Geol Soc Bul* 77:1-13. pl 1 Ja '66
- PALEOCENE period. See Geology, Stratigraphic—Paleocene**
- PALEOCLIMATOLOGY**
- Climate; new oil-finding tool? L. L. Limes. *Oil & Gas J* 64:191 O 3 '66
- See also*
- Earth temperature

PALEOCLIMATOLOGY—Continued

Alaska

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Arizona

Geomorphic and paleoclimatic significance of alluvial deposits in southern Arizona. M. A. Melton. maps *diag J Geol* 73:1-38, pl 1-3 *bibliog* (p37-8) Ja '65; Discussion. L. K. Lustig. 74:95-102; Reply. 102-6 Ja '66

Australia

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Caribbean region

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Texas

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California

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PALEONTOLOGY

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See also

Foraminifera, Fossil

Mammoth

Marine fauna, Fossil

Paleoecology

Cretaceous

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Pleistocene

Biota of a late glacial Rocky Mountain pond. E. G. Kauffman and D. S. McCulloch. maps *diag Geol Soc Bul* 76:1203-31, pl 1-2 *bibliog* (p 1230-1) N '65

Tertiary

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PALEOZOIC period. See Geology, Stratigraphic—Paleozoic

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Cosmetics

Drugs

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See also

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See also

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POLES

See also

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See also

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International association of printing house craftsmen

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Rollers. Printers

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PROPANE, Liquid

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See also Accounting

Electric utilities—Accounting

Gas companies—Accounting

Water companies—Accounting

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Dye research

Electric research

Electronics research

Engineering research

Food research

Forging research

Gas research

Glass research

Government research

Heating research

Highway research

Industrial research

Lighting research

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Traffic lines

See Traffic lines

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See also
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Thailand

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ROADS—United States—Continued

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ROADS, Asphalt

See also

Pavements, Asphalt

ROADS, Bituminous

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Maintenance and repair

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ROADSIDES

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See also

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Automation
Automobile industry and trade
Building
Chemical industries
Electric plants (central stations)
Electric utilities
Electricity supply
Electronics industry
Engineering
Fish industry
Gas, Natural
Gas, Natural—Pipe lines
Hydroelectric plants
Labor supply
Machine tool industry
Metal working industries
Moving picture industry
Oil shales
Petroleum
Petroleum industry and trade
Plastics industries
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 Brakes
 Burns and scalds
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 Inflammable mixtures
 Lightning protection
 Machinery—Safety devices
 Moving pictures in safety education
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 Poisons, Industrial
 Presses—Safety devices
 Safety at sea
 Safety contests and awards
 Safety engineering
 Safety instructions and training
 Safety signs
 Safety standards
 Safety valves
 Sheet metal working machinery—Safety devices
 Traffic lines
 Traffic signals
also subdivision *Safety measures under special subject, e.g.*
 Atomic power plants
 Automobiles
 Aviation
 Boiler plants
 Building
 Cement plants
 Chemical plants
 Chemicals
 Coal mines and mining
 Cranes, derricks, etc.
 Electric equipment
 Electric lines
 Electric plants (central stations)
 Electric tools, Portable

- Electric utilities
 Garment factories
 Gas, Natural—Pipe lines
 Gas companies
 Gases, Compressed
 Gasoline service stations
 Grinding wheels
 Liquefied petroleum gas
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 Mechanical handling
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 Mining engineering
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Denver
Detroit
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Galena, Illinois
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Naval architecture

Navigation

Ore ships

Patrol boats

Radio telephone on ships

Salvage

Ship resistance

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Steamboats

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Resonance
Shock waves
Ultrasonic waves
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Diamond mines and mining
Electricity supply
Gold mines and mining
Housing
Iron ores
Mines and mineral resources
Petroleum
Roads—Electrification
Roads

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- Amplifiers
- Automobiles
- Boilers
- Building
- Computers
- Concrete
- Concrete, Reinforced
- Concrete construction
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- Control equipment
- Copper alloys
- Electric apparatus and appliances
- Electric apparatus and appliances, Domestic
- Electric conduits
- Electric distribution

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- Lighting
- Lubrication and lubricants
- Lumber
- Machine tools
- Machinery
- Magnetic tape
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- Moving picture machines
- Moving picture photography
- Moving picture sound recording
- Moving pictures
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- Photography
- Pipes
- Pipes, Plastic
- Piping
- Plastics
- Plumbing
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- Columns
- Concrete construction—Design
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- Creep of metals
- Creep of plastics

Deformation (mechanics)

- Elasticity
- Fatigue in metals
- Friction, Internal
- Glass—Strains and stresses
- Hysteresis (mechanics)
- Influence lines
- Load (mechanics)
- Metals—Failure
- Notched bar testing
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Dallas
Detroit
Duluth
Houston, Texas
Knoxville, Tennessee
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Elasticity

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Strains and stresses

Structures. Theory of

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Curvature

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Interfaces

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TVA. See Tennessee Valley authority

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Petroleum industry and trade
Rock products industry
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Engineering education
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TEMPLES

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Hydroelectric plants
Petroleum
Public health
Roads

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Manufacture

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Testing machines
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Airplane parts
Automobile parts
Beams and girders
Bridges
Ceramic materials
Clutches
Concrete
Corrosion and anti-corrosives
Cotton fibers
Electric apparatus and appliances
Electric cables
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Electric resistors
Electric welding
Gages
Gas turbines, Aircraft
Glass
Guided missiles
Hardness
Hydraulic machinery
Internal combustion engines
Lenses
Materials
Metals
Mortar
Nickel plating
Nuclear reactors
Paint
Paper
Plastics
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Television apparatus
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Clay

Electricity supply

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Cotton—Chemistry

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TRADE agreements

See also

Collective bargaining

TRADE associations

See also

American ceramic society
 American concrete institute
 American iron and steel institute
 American petroleum institute
 Canadian ceramic society
 Chemical marketing research association
 International association of printing house craftsmen
 Malleable founders society
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Air conditioning industries
 Ceramic industries
 Chemical industries
 Control equipment
 Equipment industries
 Gas appliance industry
 Heating industry
 Machinery industry
 Printing supplies industry

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See also

Patents

Law

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See also

Textile schools

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Collective bargaining

International brotherhood of electrical workers

International chemical workers union

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Strikes

Germany

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TRADE waste

See also

Acid waste

Fumes

Mine waste

Mine water

TRADE waste—See also—Continued

Oil waste
 Petroleum—Water problem
 Petroleum waste
 Refuse, Utilization of
 Sulfite liquor
 Waste, Utilization of
 also subdivision Waste under special sub-
 jects, e.g.
 Canneries
 Chemical plants
 Dyehouses
 Food factories
 Metal working plants
 Packing houses
 Paper and pulp mills
 Plating shops
 Rolling mills
 Steel works
 Sugar factories
 Tanneries
 Textile mills
 Waterworks

Radioactive waste

See also
 Uranium works—Waste

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See also

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Petroleum—Uruguay

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Cooling
Dust removal
Electric fans
Exhaust systems
Fans, Mechanical
Mine ventilation
Tunnel ventilation
also subdivisions Heating and ventilation or Ventilation under special subjects, e.g.
Air raid shelters
Apartment houses
Churches
College buildings
Factories
Gas appliances
Hospitals

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Automobiles
Beams and girders
Boilers
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Buildings
Compressors
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Watersheds

Waterworks

Wells

also subdivision Water supply under

- names of places, e.g.
 Alexandria, Louisiana
 Arvada, Colorado
 Birmingham, Alabama
 Bloomington, Indiana
 Buena Park, California
 Celina, Ohio
 Chicago
 Dayton, Ohio
 Flint, Michigan
 Houston, Texas
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WEST INDIES

See also

Nutrition problems—West Indies

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See also

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See also

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YUKON

See also subdivision Yukon under special subjects, e.g.

Gas, Natural
Geology
Mines and mineral resources
Petroleum
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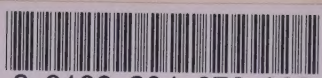
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